GenCore version 5.1.4\_p5\_4578 Copyright (c) 1993 - 2003 Compugen Ltd.

OM DUCTALL	5 400	
oo:	March	Search, using sw model
i		17 15001 15
Title: Perfect score: Sequence:	US-10- 1745 1 t998	-10-017-621-3 45 tggaagcagcglaaaggatggttcacctgcccacttgtcc 1745
Scoring table:	IDENTI Gapop	IDENTITY_NUC Gapop 10.0 , Gapext 1.0
Searched:	205	2054640 seqs, 14551402878 residues $_{ m J}$
Total number of	hits	satisfying chosen parameters: 841850
Minimum DB scq Maximum DB seq	length: length:	h: 0 h: 50
Postrprocessing		Minimum Match 0% Maximum Match 100% Listing first 45 summaries
Database :	Gen	Emb1:*
	ä	* pa_de
	 	gb_ntg:* qb_in:*
	 	•:wo-q6
		gb_ov:• ab_oat:•
		*id_de
	 o	9b_p1:* 9b_pr:*
	10:	gb_ro:*
	12:	95.45
	13:	• 'nn q6
	15:	Galba:*
	16:	em_fun:•
	18:	em_num:
		em_mu:•
	21:	em_or: •
	55	em_ov:*
	7 7	em par: *
	25:	en_p1:•
	 	em_ro:*
	28:	em un: *
	29:	em_v1:*
	30:	em_htg_hum: •
	32:	em_htg_other:•
	33:	em_htg_mus:*
	 9 %	em_htg_pin: * em_htg_rod: *
	36:	en_htg_mam: *
	37:	em_htg_vrt:* em_sv:*
	39:	em_htgo_hum: •
	40: 41:	em_htgo_mus:• em_htgo_other:•
	į	

Pred. No. is the number of results predicted by chance to have a

REFERENCE AUTHORS TITLE JOURNAL

HSHCAK

HSHCAK

HSAPiens mRNA for Cdk activating kinase.

N 76171

X76171

X76171

S activating kinase.

Homo saptens.

Eukaryota: Metazoa: Chordata; Craniata; Vertebrata; Euteleostomi; Momanila; Eutheria; Primates; Catarrhini; Hominidae; Homo.

RE Hall, F.L.

Direct Submitsed (08-NOV-1993) F.L. Hall, Childrens Hospital Los Angeles,

RESULT 1
HSHCAK
LOCUS
DEFTRITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM

ALIGNMENTS

		•			SUMMARIES	
Result	Smre	ery	4	Ĉ	4	:
		ייייייייייייייייייייייייייייייייייייייי	Leugh CI		100	Description
	23.8		4	O,	HSHCAK	5171 H.sapiens
<b>7</b> (	N 1	7.3	20	9	A93721	3721 Sequence
v -			S :	۰ م	A93722	3722
• 4	; '	•	7	۰ م	7	1 Sequence
n u	77		200	۰ م	AX159452	9452 Sequenc
		•	15	۰ م	1967	_
<b>,</b> c	•	•	42	۰ م	AX182243	
		•	7 4	۰	AX382049	Seguenc
, 5		•		۰٥	ARU3.2344	244
7.		•	9 4	0	AK209208	<b>208 Seguenc</b>
1.5		•	•	0 4	129784	29284 Sequence
7 .	٠.	•	0 5	0	190958	ġ.
` _	1.0	•	10	<b>D u</b>	AAZABUIS	AX248015 Sequence
, (		•		۰.	AA186238	Sedneuc
1 -		•	9 (	٥ ر	A44/41	Se
7.0		•	7	۰ م	AX153998	
֝֞֞֝֞֝֞֝֞֝֞֜֝֞֝֓֓֓֓֞֝֞֜֜֝֓֓֓֓֓֓֞֜֜֜֝֓֓֓֞֡֓֓֓֡	9.0	•	ŭ,	۰ م	AR022074	AR022074 Sequence
9 6		•	ח ו	ا م	155009	I55009 Sequence 3
			0 4	۰,	192864	192864 Sequence 36
9 7		٠	<b>.</b>	۰	AR079723	AR079723 Sequence
1 6				٥,	AKU81253	AR081253 Sequence
;		•	9 4	0		ARI70613 Sequence
10	20.02		•	o 4	AKZOOLAB	Sednenc
25	_		7 4	9 U		ŭ,
ייי			200	<b>.</b>	AA443409	AX222269 Sequence
22		•		0 0	3,	m !
200			,	<b>n</b> u	•	5
10			0 6	o u		
00	200		2 6	<b>9</b> 4	117501	O
3.5	200	:-	3 5	v	3 5	Ñ
•			7 4	<b>5</b> 4	ζ.	ς.
	• 6		,	٥,	AU/323	A07325 Synthetic
י ר	3 0		4	0 (	112502	~
7 0	٠,	 	0 1	١٥	E52011	금
	٠. د	1.1	9	0	AX036348	AX036348 Sequence
	0.01	7 -	\$ 9	۰ م	AX036350	
1	h a		9 4	6		_
٦.	n a		9 (	7,	BD004595	Š
•	h (	- ·	71	۰ م	AX452342	234
•	, ,	-:-	47	۰ م	AR153233	33 Sequenc
•	, c	T: -	φ.	9	117261	117261 Sequence 2
7 .	٠,	1.1	45	φ	20	eduence
	<u>.</u>	1.1	20	ø	297	R032970 Sequence
4	6	-	ď	4	ç	
			2	0	AK409034	95.9

```
ö
                                                                                PAT 22-JAN-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PAT 04-APR-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PAT 22-JUN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa; Chordata; Cranlata; Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                          1 (bases 1 to 50)
Rose-John, S.
CONJUGATE FOR MODIFYING INTERACTIONS BETWEEN PROTEINS
PALENT: NO 9732891-A 9 12-SEP-1997;
ANGEWANDTE GENTECHNOLOGIE SYST (DE); ROSE JOHN STEFAN (DE)
LOCALLON/QUALIFIES
                                                                                                                                                                                                                                                                                                                                                                                                                                    ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 (bases 1 to 47)

Varbham, H.Karsenty. and Godowski, P.J.

Wethods and kits using macrophage stimulating protein

Patent: US 5696086-A 5 09-DEC-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1.3%; Score 22.2; DB 6; Length 47; 69.8%; Pred. No. 1.8e+06; tive 0; Mismatches 13; Indels
                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 1.3%; Score 22.4; DB 6; Length 50; Best Local Similarity 66.7%; Pred. No. 1.6e+06; Matches 32; Conservative 0; Mismatches 16; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  958 CGGCAGAAGGTGCTACACCGAGACCTCAAGCCCCAGAACCTGCTCATC 1005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            linear
                                                                                  linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    linear
     50 CAGAACCTCCACCTCCAGAACCTCCACCTCCAGAACCTCCACCTCCTCGA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 241 GGCGGCAGTGACCCTGGAGAGCCCCCACACGTGCTGCTG 283
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2 GGACGAATCCACCATGGGGTGGCTCCCACTCCTGCTGCTTCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ONA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA
                                                                                   DNA
                                                                                                                                                                                                                                                                                                                                                      7 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AXI59452 50 bp DN
Sequence 2780 from Patent WO0140521.
AXI59452 AXI59452.1 GI:14540783
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 5 from patent US 5696086.
                                                                                                                                                                                                                                                                                                                      /organism="unidentified"
/db_xref="taxon:32644"
1 26 c 4 9
                                                                              50 bp
Sequence 9 from Patent WO9732891
A93722
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /organism="unknown"
16 c 12 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        184671.1 GI:3022191
                                                                                                                               A93722.1 GI:6741894
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 69.8%
Matches 30; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Unknown.
Unclassified.
                                                                                                                                                                            unidentified unclassified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               human.
Homo saptens
                                                                                                                                                             unidentified
                                                                                                                                                                                                                                                                                                                                                       13 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Unknown
                                                                                              DEFINITION
ACCESSION
VERSION
KEIWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                    BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DEFINITION
ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                              ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  JOURNAL
FEATURES
                                                                                                                                                                                                                                         TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BASE COUNT
                                                  RESULT 3
A93722
                                                                                                                                                                                                             REFERENCE
                                                                                                                                                                                                                             AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 5
AX159452
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       KEYWORDS
                                                                                                                                                                                                                                                                                        FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PAT 22-JAN-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
Division of Orthopaedic Surgery, 4650 Sunset Houlevard, Los
Angeles, CA, 90027, USA
2 (bases I to 49)
Wu.L. and Hall, P.L.
Unpublished
3 (bases I to 49)
Wu.L., Yee, L. Liu, L., Carbonaro Hall, D., Venkatesan, N., Tolo, V.T.
and Hall, F.L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 (bases 1 to 50)
Rose-John, S.
GORJIGATE, FOCK MODIFFING INTERACTIONS HETWEEN PROTEINS
PARENT: NO 97/3891-A B 1-2-EP-1997;
AA: ARDIC GENTECHNOLOGIE SYST (DE): ROSE JOHN STEEAN (DE)
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 961 CAGAAGGTGCTACACCGAGACCTCAAGCCCCAGAACCTGCTCATCAACGA 1010
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     / Match 1.4%; Score 23.8; DB 9; Length 49; Local Similarity 72.14; Pred. No. 7.84-05; A64-05; Conservative 0; Mismatches 12; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1.3%; Score 22.8; DB 6; Length 50; 66.0%; Pred. No. 1.3e+06; LIVe 0; Mismatches 17; Indels
                                                                                                                                                                              1. .49
/organism-"Homo sapiens"
/organism-"Homo sapiens"
/db_xref-"taxon:9606"
/clone-"TARC EN-1"
/cell_type-"EN-1 EN-10s sarcoma
/clone_type-"EN-1 EN-10s sarcoma
/clone_tibe-"tangs sarcoma
/clone_tibe-"tangs sarcoma
/clone_tibe-"tangs"
                                                                                                                        Molecular cloning of the human CAKI gene encoding cyclin-dependent kinase-activating kinase cyclin-dependent kinase-2010 (1994)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                linear
                                                                                                                                                                                                                                                                                                                                                                                                               /note="catalytic subunit; subdomain VII"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1010 AGAGGGGAGAGCTCAAGCTGGCTGACTTTGGCCTGGCCCGAGC 1052
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                43
                                                                                                                                                                                                                                                                                                                                                                                                                                         /product-fprotein kinase.
/protein_d4-"cA53766.1*
/db_xref-"GI:939888"
/db_xref-"SPTRENBL:014495"
/translation-"RWSSKTGRENPEGGIFW"
a 8 c 12 g 15 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1...50
/organism-"unidentified"
/db_xxef-"taxon:32644"
/ a 4 c 26 g 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 8 from Patent W09732891.
A93721
A93721.1 GI:6741893
                                                                                                                                                                                                                                                                                                                                                                                                                                 /codon_start=2
                                                                                                                                                                                                                                                                                                                                                                  /gene="HCAK"
<1. .>49
                                                                                                                                                                                                                                                                                                                                                                                              /yene-"HCAK"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 1.3%
Best Local Similarity 66.0%
Matches 33; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      unidentified.
unidentified
unclassified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                           source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SO1108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM
                                                                              REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE
AUTHORS
                                                                                                                                                                            MEDLINE
PUBMED
                                                  AUTHORS
                                                                                                                                                                                                                                                                                                                                                    gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 HNAL
                                  REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 2
A93721/c
LOCUS
                                                                                                                                                           JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                 CDS
                                                                                                                                                                                                          FEATURES
                                                                                                                           TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
```

~

ö

```
Patent: WO 0142441-A 53 14-JUN-2001;
International Centre for Genetic Engineering and Blotochnology (17)
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                          PAT 18-MAR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Transplastomic plants
Patent: WO 0206497-A 53 24-JAN-2002;
International Centre for Genetic Engineering and Biotechnology (IT)
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PAT 29-SEP-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Dictaosization 46)
Edwards, C.A., Cantor, C.R., Andrews, B.M., Turin, L.H. and Fry, K.E. Bethod of determining DNA sequence preference of a DNA-binding molecula
Patent: US 5869241-A 156 09-FEB-1999;
Location/Qualifiers
1. 46
/organism="unknown"
9 a 14 c 16 g 7 t
                                                                                                                                                                                           Cape
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                            Length 42;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1.2%; Score 21.4; DB 6; Length 42; 80.6%; Pred. No. 2.88+06; tive 0; Mismatches 6; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1.2%; Score 21.4; DB 6; Length 46;
                                                                                                                                                                                                                                                                                                                          linear
                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   linear
                                                                                                                                                     Query Match 1.24: Score 21.4; DB 6;
Best Local Similarity 80.64; Pred. No. 2.8e+06;
Matches 25: Conservative 0; Mismatches 6;
                                                       1. 42
/organism=synthetic construct
/db_xref="taxon:32530"
/note="primer"

    .42
    /Organism-'synthetic construct'
    /db_xref-'taxon:32630'
    /note-'Primer'

                                                                                                                                                                                                                                                                                                                        Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   S
S
S
S
                                                                                                                6
t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           46 bp DN
Sequence 156 from patent US 5869241.
AR032544
                                                                                                                                                                                                                                                                                                                AX382049 42 bp
Sequence 53 from Patent WO0206497.
AX382049
AX382049.1 GI:19576871
                                                                                                                                                                                                                270 ACGTGCTGCTGGGGAACTTCGTTCTGCA 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    35 ACGTACGGGTCCTGCGACCTTCGATCTGCA S
                                                                                                             11 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Reddy, V.S. and Sadhu, L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AR032544.1 GI:5948149
                                                                                                                                                                                                                                                                                                                                                                                                         synthetic construct artificial sequences.
                                                                                                                                                                                                                                                                                                                                                                                           synthetic construct.
                                                                                                              10 c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        10 c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local Similarity 80.6 hes 25; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Unclassified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    15 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                       source
                                                                                                                                                                                                                                                                                                                                             ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                    RESULT 8
AX382049/C
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 9
AR03234
LOCUS
DEFINITION
ACCESSION
VERSION
VERSION
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BASE COUNT
ORIGIN
           JOURNAL
                                                                                                           BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     source
                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE
AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    JOURNAL
FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BASE COUNT
ORIGIN
                                        FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURES
                                                                                                                                                                                                                ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                ó
                                                                                                                                                                                                                                                                                                                                                                                                                                                PAT 28-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PAT 06-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     flown sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalla; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 31)
Cargill.M., Treland.J.S. and Lander.E.S.
Human single nucleotide polymorphisms
Patent; WO 016800-A 75. 13.5EP-2001;
WHITEHEAD INSTITUTE FOR BIOMEDICAL RESEARCH (US)
                                                                                                                                                                                                              inote-"2 of 2 allelic variants (2779 is other entry)" ^{2} 22 c ^{2} 13 9 ^{6} t
                                                                                                                                                                                                                                                                                                                Caps
Mammalla: Eutheria: Primates: Catarrhini; Hominidae; Homo. 1 (bases 1 to 50)
Shimkets, R.A. and Leach, M.
Nucleic acids containing single nucleotide polymorphisms and methods of use thereof
Patent: WO 014051.A 2780 07-JUN-2001;
Cutagen Corporation (US)
Location/Qualiflers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              synthetic construct.
synthetic construct
synthetic sequences.
1 (bases 1 to 42)
Reddy,S.I., Sadhu,L.I., Shukla,V.C. and Ferraiolo,G.I.
Plastid transformation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 31;
                                                                                                                                                                                                                                                                                                                                                                                                                                               linear
                                                                                                                                                                                                                                                                       Owery Natch 1.3%; Score 22; DB 6; Length 50; Best Local Similarity 73.7%; Pred. No. 2e+06; Matches 28; Conservative 0; Nismatches 10; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 others
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   lincar
                                                                                                                                                                                                                                                                                                                                1642 CGGCTGGAGGGATGCCACACCCCTCACAGGGCAGCCCC 1679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     :
9
                                                                                                                                                                                                                                                                                                                                                  11 CTGCTTGAGCGCTGCCACCCCTCTGGTGGGCCCCCC 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ouery Match 1.2%; Score 21.6; DB 6; Best Local Similarity 80.0%; Pred. No. 2.6c+06; Matches 24; Conservative 1; Mismatches 5
                                                                                                                                                                                                                                                                                                                                                                                                                                               DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4
                                                                                                                                                                                                                                                                                                                                                                                                                                     AX248673 31 bp D
Squence 752 from Patent WO0166800.
AX248673.1 GI:15863296
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AX182243 42 bp
Sequence 53 from Patent WO0142441.
AX182243
AX182243.1 GI:15133518
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /organism-"Homo sapiens"
/db_xref-"taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     979 GACCTCAAGCCCCAGAACCTGCTCATCAAC 1008
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2 GACATCAAGCCCCAKAACCTGCTGGTGGAC 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                    misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              human.
                                                                                                                                                            mlsc_feature
                                                                                                                 source
                                                                                                                                                                                                                             BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ACCESSION
VERSION
KEYWORDS
SOURCE
ORCANISM
             REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                    DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 7
AX182243/C
LOCUS
DEFINITION
                                                                     JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 6
AX248673
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACCESSION
VERSION
KEYWORDS
                                                                                                 FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURES
                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
```

ઠ

```
human.
                                                                                                                                                                                                                                                                                                                                                                               human.
                                                   AUTHORS
TITLE
JOURNAL
FEATURES
                                                                                                                                                                                                                                                                                                                          DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 14
AX186238/c
LOCUS
DEFINITION
ACCESSION
VERSION
                                                                                                                            BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BASE COUNT
ORIGIN
 SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM
                                                                                                                                                                                                                                                                                      RESULT 13
AX248015
                                                                                                                                                                                                                                                                                                                                                                                                                               REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AUTHORS
TITLE
                                        REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REPERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PEATURES
                                                                                                                                 PAT 20-JUN-2002
               ö
                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       linear PAT 06-FEB-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 linear PAT 01-DEC-1998
                                                                                                                                                                                                                              To (bases 1 to 46)

Revards, C.A., Cantor, C.R., Andrews, B.M., Turin, L.M. and Fry, K.E.

Sequence directed DNA binding molecules compositions and methods

Patent: US 6184208-A 156 07-MAY-2002;

Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 (bases 1 to 46)
Edwards.C.A., Cantor.C.R., Andrews,B.H., Turin,L.M. and Fry,K.E.
Sequence-directed DNA-binding molecules compositions and methods
Patent: US 557844A 156 26-NOV-1996;
Location/Qualifiers
              Gaps
                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gapa
               ö
                                                                                                                                                                                                                                                                                                                                                                                          ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                               Query Match 1.2%; Score 21.4; DB 6; Length 46; Best Local Similarity 71.8%; Pred. No. 2.8e+06; Matches 28; Conservative 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 1.2%; Score 21.4; DB 6; Length 46; Best Local Similarity 71.8%; Pred. No. 2.8e+06; Matches 28; Conservative 0; Nismatches 11; Indels
                                                                                                                                 linear
Best Local Similarity 71.8%; Pred. No. 2.80+06;
Matches 28; Conservative 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                1641 GCGCCTGGAGGGATGCCACACCCCTCACAGGGCAGCCCC 1679
                                                   2 GCGGTGGATTGGACGCTCCAATCACAGGCCAGCGCC 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DXA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   46 bp Dh
Sequence 156 from patent US 5578444.
129284.1 GI:1820075
                                                                                                                                                                                                                                                                                                                          7
t
                                                                                                                         Sequence 156 from patent US 6384208.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DEFINITION Sequence 156 from patent US 5726014.
ACCESSION 190598
VERSION 190598.1 GI:3935428
                                                                                                                                                                                                                                                                                                           /organism-"unknown"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /organism-"unknown"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                16 9
                                                                                                                                                                   AR209208.1 GI:21510563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Unknown.
Unclassified.
                                                                                                                                                                                                                     Unclassified
                                                                                                                                                                                             Unknown.
                                                                                                                                                                                                             Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Unknown
                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                         DEFINITION
ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                   source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        source
                                                                                                                                                                                             SOURCE
ORGANISM
                                                                                                                                                                                                                                                                      JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOURCE
                                                                                                                                                                                                                                                                                                                          BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TOURNAL
                                                                                                  RESULT 10
AR209208
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 11
129284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 12
190958
                                                                                                                                                                                                                                  REFERENCE
                                                                                                                                                                                                                                                AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AUTHORS
                                                                                                                                                                                 KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURES
                                                                                                                                                                                                                                                             TITLE
                                                                                                                                                                                                                                                                                                                                      ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                   à
                                                                윱
```

윱

8

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              linear PAT 06-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PAT 28-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
1 (bases Lo 31)
Cargill, M., Ireland, J.S. and Lander, E.S.
Human single nucleotide polymorphisms
Patent: WO 0166800-A 94 13-SEP-7001;
WHITEHEAD INSTITUTE FOR BIONEDICAL RESEARCH (US)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo saplens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Eukaryota; Metazoa; Chordates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 46)
Schlegel, R., Deeds, J., Berger, A. and Zhao, X.
Genes, compositions, kits, and methods for identification, assessment, prevention, and therapy of cervical cancer
Patent: MO 043467-A 1933 14-JUN-2001;
Millennium Preddictive Medicine, Inc. (US)
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                              Gaps
Unknown.
Unclassified.
I (bases 1 to 46)
I (bases 1 to 46)
Edwards.C.R., Andrews,B.N. and Turin,L.M.
Screening assay for the detection of DNA-binding molecules
Patent: US 5726014-A 156 10-MAR-1998;
LOCALION/QUALITIERS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                               Length 46;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 others
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 31;
                                                                                                                                                                                                                                                                                                                                           11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
1.21; Score 21; DB 6; Length 31;
Best Local Similarity 77.44; Pred. No. 3.5e+06;
Matches 24; Conservative 1; Mismatches 6; Indels
                                                                                                                                                                                                                                                                                                                                                                                       QY 1641 CCGCTGGAGGGATGCCACACCCCTCACAGGGCAGCCCC 1679
                                                                                                                                                                                                                                                                                                 ;
                                                                                                                                                                                                                                                                                                                                                                                                               2 GCGTGGATTGGACGCTCCACCAATCACAGGGCAGCGCC 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DNA
                                                                                                                                                                                                                                                                                               Query Match 1.2%: Score 21.4; DB 6: Best Local Similarity 71.8%: Pred. No. 2.88+06; Best Local S. Conservative 0; Mismatches 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    46 bp Di
Sequence 1933 from Patent WOD142467.
AX186238
AX186238.1 GI:15137666
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AX248015
Sequence 94 from Patent WO0166800.
AX248015
AX248015.1 GI:15862638
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /organism="Homo sapiens"
/db_xref="taxon:9606"
5 a 9 c 8 9 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             577 GTCAGCCTATCTGAGATTGGCTTTGGGAAAC 607
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 GCCTCCTGTCAGACMTTGGCTTTGGGAAAC 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Location/Qualifiers
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        linear PAT 26-JAN-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                           0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 1.2%; Score 20.8; DB 6; Length 46; Best Local Similarity 78.1%; Pred. No. 3.9e+06; Matches 25; Conservative 0; Mismatches 7; Indele
                                                                                                   2 others
                                                                                                                                                                                                       Query Match 1.2%; Score 21; DB 6; Length 46; Best Local Similarity 71.1%; Pred. No. 3.5e+06; Matches 27; Conservative 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       unidentified.

unidentified
unidentified
unidentified
unidentified
unidentified
unidentified
unidentified
in (bases) to 46)
if (bases) to 46)
if (begenann.P.
PRETHOD FOR PRODUCING NUCLEIC ACID POLYMERS
PRETHOD FOR PRODUCING
PRETHOD FOR PRODUCING
PRETHOD FOR PRODUCING
LOCATION PURPER (DE)
1. continuo (Qualifiers)
1. cont
                                                                                                                                                                                                                                                                                                                                                    ONA
                                                                                               6
t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A98791 46 bp
Sequence 24 from Patent WO9910358.
A98791.1 GI:6781812
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /organism-"Homo sapicns"
/db_xref-"taxon:9606"
7 a 13 c 18 9 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 15
A98791/c
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISH
                                                                                 BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE
AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BASE COUNT
ORICIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURES
```

Scarch completed: March 4, 2003, 00:06:28 Job time : 4794 secs

OM nucleic

Run on:

Sequence:

Minimum DB Maximum DB

Database

Searched:

Washington University School of Medicine
4444 Forest Park Parkway, Box 9501, St. Louis, MO 53108
Tel: 314 286 1800
Fex: 314 286 1810
Email: estéwatson.vustl.edu

Contact: Wilson RK

N78054 yv71q05.rl R30968 yd07c08.sl AW247978 2819657.5 AU107934 AU107934 AZ346286 1M0081C01 AU102877 AU102877

N78054 R38968 AW247978 AU107934 AZ346286 AU102877

229979

23.2 21.4 21.2

Description

80

Length

Score

Result è

```
human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 3
AW247978
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURES
                                                                                                                                                                                                                                                                                                                             /doranism-"Homo sapiens"
/dD_xref='tGDB:3797462"
/dD_xref='tGDB:3797462"
/dD_xref='taxou:9506"
/clone='INAGE:24816"
/clone='INAGE:24816"
/clone='INAGE:24816"
/dev_stage="10 week-post conception fetus"
/dev_stage="20 week-post conception fetus"
/deb_nost-DBH:08 (Ampfillin) resistant)"
/dab_nost-DBH:08 (Ampfillin) resistant)"
/dab_nost-DBH:08 (Ampfillin) resistant)"
/dab_nost-DBH:08 primed with a post in Site 2: Eco RI;
list strand CDN was lighted to Eco RI adaptors of Stranded CDN was lighted to Eco RI adaptors and Eco RI sites of the modified pr773 vector. Library constructed by Bento Soares and M.Fatima Bonaldo."

6 a 20 c 7 g it to the same and the same sonaldo."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Washington Dilversity School of Medicine
444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Fal: 314 286 1810
Fax: 31 286 1810
Email: est@watson.wustl.edu
Insert Size: 1349
High quality sequence starts: 1 High quality sequence stops: 1
Source: IMAGE Consortium, LLNL This clone is available royalty-free
through LLNL: contact the IMAGE Consortium (info@image.llnl:gov)
for further information. Trace considered overall poor quality
Insert Length: 1349 Std Error: 0.00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        #18968 28 O4-MAY-1995 ARNA linear EST 04-MAY-1995 AG07008.91 Soares infant brain lNIB Homo sapiens chwa clone IMAGE:25073 3' similar to gb:x66363 SERINE/THREONINE-PROTEIN KINASE PSTARE-1 (HUMAN);, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo saplens

Bukaryota: Metazoa; Chordata: Craniata: Vertebrata; Euteleostoml;

Mammalia: Eutheria: Primates: Catarrhini; Hominidae; Homo.

1 (boses 10 28)

Hillier, L., Clark, N., Dubeque, T., Elliston, K., Hawkins, M., Holman, M., Kucaba, T., Le, N., Lennon, G., Marra, M., Parsons, J., R., Milliamson, M., Hohldman, P. and Milson, R., Trevaskis, E., Waterston, R., Williamson, A., Hohldmann, P. and Wilson, R.

The Wash Orwerce Est Project
Oppublished (1995)
This clone is available royalty-free through LLNL; contact the ThAGE Consortium (info@image l.lnl.gov) for further information. Trace considered overall poor quality Insert Length: 1418 Std Error: 0.00 Seq primer: reverse ET High quality sequence stop: 1. Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2.6%; Score 45; DB 14; Length 46; 97.8%; Pred. No. 0.78; tive 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Anger of the state of the state
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              R38968.1 GI:796424
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Best Local Similarity 97.8
Matches 45; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 2
R38968/c
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    VERSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURES
                                                                                                                                                                                                                                                                   FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      윱
```

```
National Institutes of Health, Mammalian Gene Collection (MGC)

I (bases 1 to 48)

National Institutes of Health, Mammalian Gene Collection (MGC)

I (bases 2 to 48)

National Institutes of Health, Mammalian Gene Collection (MGC)

In (bublished (1999)

Other_ESTS 2819657.3prime

Contact: Robert Strausberg, Ph.D.

Email: Gapba-rémail nih, gov

Fissue Procurement: DCTD/DTP CDNA Library Preparation: Ling

Tissue Procurement: DCTD/DTP CDNA Library Preparation: Ling

Hong/Rubin Laboratory CDNA Library Arrayed by: The I.M.A.G.E.

Consortium (LLML) DNA Sequencing by: Berkeley MGC sequencing

project clone distribution: MGC clone distribution information can

be found through the I.M.A.G.E. Consortium/LLML at:

www-blo.lin.lingov/Dbry/image/Aimage, humb Base Calling / Quality

Scores: PHRED from University of Washingtion Genome Center

PHRAP suite: Poly-T dentification: publatch.pl from Berkeley

Drosophila Genome Project. University of Washingtion Genome Center:

http://www.genome.washington.edu Low Quality Sequence: 8 contiguous

PHRED high quality bases following vector sequence. Very Low

Ouality Sequence: Trace file contained 48 contiguous distinct peaks

following vector sequence.
/organism-"Homo sapiens"
/db_xref="4cD8:39140"
/db_xref="4cD8:39140"
/db_xref="4cD8:39140"
/db_xref="4cD8:39140"
/clone="INAGE:25073"
/clone="Ind="5cores" infant brain INIB"
/sex="female"
/sex="fema
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      48 bp mRNA linear EST 07-JAN-2000 2819657.5prime NIH_MGC_7 Home sapiens cDNA clone IMAGE:2819657 5', AW247978
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /clone='IMAGE:2819657"
/clone_llb="NIR_WGC_7"
/clsue_type="small cell carcinoma"
/cell_line="WGC3"
/lab_host="DH10B (phage-resistant)"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1.6%; Score 28; DB 14; L
100.0%; Pred. No. 9.1e+03;
tive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Plate: LLCM2 row: C column: 18
High quality sequence stop: 8.
Location/Qualifiers

    .48
    /organism="Homo sapiens"
/db_xref="taxon:9606"

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1716 CCTGAGCCATGTTCACCTGCCCACTTGT 1743
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        28 CCTGAGCCATGTTCACCTGCCCACTTGT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AW247978.1 GI:6591066
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 100.(
Matches 20; Conservative
```

5

a

```
/Jab host-"E. Coll strain XLID-Gold, Tl-resistant, F-
/note-"Vector: PWD42nv; Purified genomic DNA from M.
musculus C578L/GJ (male) was obtained from the Jackson
Laboratory Nouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynomically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polymuclectide kinase. Adaptor oligomotectides were
lighted to the blunt ends in high molar excess. The
adaptored DNA was purified and site-selected for a 9.5 to
10.5 k range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (gil47321141gbl,R7129072.1), a copy number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptored mouse DNA was annealed to
adaptored vector DNA, and transformed into
chemically-completent E. coll KILD-Gold (Stratagene) cells
and selected for ampleillin resistance.
                                                                                                                    AU102877 Sugano Homo saplens cDNA library Homo saplens cDNA clone COL03075, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /clone_lib-'Mouse 10kb plasmid UUGCIM library'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ouery Natch 1.2%; Score 21.2; DB 17; Length 36; Best Local Similarity 76.5%; Pred. No. 4.8e+05; Matches 8; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.uteh.edu
Insert Length: 10000
Flate: 0081 row: C column: 01
Seq primer: CACACAGGAACACCTATGACC
Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       212 AGATAGGCCTGGATGAGAGTGGTGGTGGTGGCGG 245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 AGATITCICIGCCIGAGIGIGGIGGIGGIGGIGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1. 36
/organism-*Nus musculus*
/strain-"c57BL/63*
/db_xref-"taxon:10090*
/clone-"UUGCIM00BIC01*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     High quality sequence stop: 36. Location/Qualifiers
            AZ346286
AZ346286.1 GI:10425619
                                                                               house mouse.
Nus musculus
          ACCESSION
VBRSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 6
AU102877
LOCUS
DEFINITION
                                                                                                                                                                     REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                               JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURES
                                                                                                                                                                                                                                                                                         TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo saplens
Eukaryota, Metzoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia: Butheria; Primates; Catarrhin; Hominidae; Homo.
I (bases 1 to 50)
Suzuki, Y. Taira, H., Tsunoda, T., Mizushima-Sugano, J., Sese, J., Hata, H. Ota, T., Isogai, T., Tanaka, T., Morishita, S., Okubo, K., Sakaki, Y., Y., Makamuta, Y., Suyama, A. and Sugano, S., Okubo, K., Sakaki, Diverse transcriptional initiation revealed by fine, large-scale mapping of mana start sites
EMBO REP. 2 (5), 388-393 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Emali: ysuzuki, Y. Yoshitomo-Nakagawa, K., Maruyama, K., Suyama, A. and Suyano
,S. Construction and characterization of a full length-enriched and
a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AU107934 Sugano Homo saptens cDNA library Homo saptens cDNA clone HSI01159, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A2346286 36 bp DNA linear GSS 29-SEP-2000 IM0081COIR Mouse 10kb plasmid UUGCIM library Mus musculus genomic clone UUGCIM0081COI R, DNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
/note='organ: lung; vector: poTB7; Site_l: XhoI; Site_2: BCORI; CDNA made by oligo-dr priming. Directionally cloned into EcoRI/XhoI sites using the following 5 adaptor: GGACGAC(G). Size-selected >500p for average insert size 18bb. Library constructed by Ling Hong in the laboratory of gerald M. Rubin (University of California, Berkeley) using ZAP-CDNA synthesis kit (Stratagene) and Superscript II NT (Life Technologies)."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="HSIO1159"
/note="blfferential display comparison of untreated and dimethylfumarate treated U937 cells"

9 c 25 g 9 t
                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gapa
                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                  1.3%: Score 23.2; DB 10; Length 48; llarity 77.8%; Pred. No. 1.8e+05; Conservative 0; Mismatches 8; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1.2%; Score 21.4; DB 9; Length 50; 80.6%; Pred. No. 5.1e+05; Live 0; Mismatches 6; Indels
                                                                                                                                                                                                                                                                                                                                               1573 TCAGGCAGGCCAGCTTTCCGCGTGGTGGACACCGAG 1608
                                                                                                                                                                                                                                                                                                                                                                   11 TCAGGCAATCCTGCTCTCGGCGAACAGCGAG 46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          227 AGAGTGGTGGTGGCGCCAGTGACCCTGG 257
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 AGAGTGGAGGTGGTGGCGGCGCGCTTTGG 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AU107934.1 GI:13557456
EST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Contact: Yutaka Suzuki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local Similarity 80.6 nes 25; Conservative
                                                                                                                                                                                                                                                                            Local Similarity
es 28; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     human
                                                                                                                                                                                                                                                       Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 5
AZ346286
LOCUS
DEFINITION
                                                                                                                                                                               BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM
                                                                                                                                                                                                                                                                              Best Loc
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Best Loca
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             JOURNAL
MEDLINE
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 4
AU107934
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    VERSION
KETWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE
```

ö

Gaps ö

셤

ô

```
5009-0-35-H11.t.2 Chilcoat/Turkevitz cDNA linear EST 17-JAN-2002 Tetrahymena thermophila cDNA, mRNA sequence.
BN397711 GI:18197764
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A2993993 46 bp DNA linear GSS 27-APR-2001
2M0279Ell9F Mouse 10kb plasmid UUGC2M library Mus musculus genomic
clone UUGC2M0279Ell F, DNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Tetralyment thermophila

Bukaryota; Alveolate; Ciliophora; Oligohymenophorea;

Bukaryota; Alveolate; Ciliophora; Oligohymenophorea;

Hymenostomatida; Tetrahymenina; Tetrahymena.

1 (bases 1 to 50)

1 (bases 1 to 50)

2 and Klobutcher, L.

5.3 and Klobutcher, L.

6.4 and Klobutcher, L.

6.5 from Tetrahymena thermophila, strain CU428.1, growing cells upbublished (2002)

Contact: Turkewitz AP

Wolecular Genefics and Cell Biology

University of Chicago, IL 60637, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             //organism="retrahymena thermophila"
//strain="CU438.1"
/db_xref="taxon:591"
/db_xref="taxon:591"
/clone_lib="Chilcoat_Turkevitz cDNA (large fraction)"
/clone_lib="Chilcoat_Turkevitz SK+; Details on library
preparation can be found in Chilcoat and Turkevitz (2001)
preparation and Sci U3, 98: 8709-8713."
7 2 23 9 2 t 8 others
   /organism="Homo sapiens"
/db_xxef="taxon:966"
/clone="Homo:966"
/clone=lib="Sugano Homo sapiens cDNA library"
/note="Differential display comparison of untreated and dimethyliumarate treated 1937 cells"
10 2 22 9 5 1
                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 1.2%; Score 21; DB 13; Length 50; Best Local Similarity 60.0%; Pred. No. 6.3e+05; Matches 27; Conservative 0; Mismatches 18; Indels
                                                                                                                                                                                                                                                                                               Query Match 1.2%; Score 21; DB 9: Length 50;
Best Local Similarity 82.8%; Pred. No. 6.3e+05;
Matches 24; Conservative 0; Nismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     82 CCCGGGGCTCTGAGGTTGCTCGCGCGCCCCCGCCGATCGCCATG 126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Email: apturkew@midway.uchicago.edu
Seq primer: T3.
                                                                                                                                                                                                                                                                                                                                                                                                                             558 CAGCCGCCGCCTCCGTCGTCAGCCTAT 586
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Tetrahymena thermophila.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AZ993993.1 GI:13865220
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Tel: 773 702 4374
Fax: 773 702 3172
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               house mouse
                                                                                                                                                                                                     13 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 8
BM397711/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM
                                                                                                                                                                                                     BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACCESSION
VERSION
KETWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         VERSTON
KRTWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 9
A2993993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Contect: Yutaka Suzuki
Confect: Yutaka Suzuki
Department of Witology
Institute of Nedical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Bmall: ysuzukidins.u-tokyo.ac.jp
Suzuki,Y., Yoshitomo-Yakagawa,K., Maruyama,K., Suyama,A. and Sugano
Suzuki,Y., Yoshitomo-Yakagawa,K., Maruyama,K., Suyama,A. and Sugano
5. Construction and characterization of a full length-enriched and
a 5'-end-enriched coMA library. Gene 200 (1-2), 149-156 (1997).
                                                                                                                                                                                                                                                           Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata,H., Okabo,J., Sese,J., Hata,H., Okabo,J., Sese,J., Hata,J., Morishita,S., Okubo,K., Sakaki,Y., Nakamura,Y., Syyama,A. and Sugano,S.
Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites
EMBO Rep. 2 (5), 388-393 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AU105237 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata,H., Oda,T., Toda,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki,Y., Nakamura, Suyama,A. and Sugano,S. Olverse transcriptional initiation revealed by fine, large-scale mapping of mRMA start sites
EMBO Rep. 2 (5), 388-393 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Contact: Tutaka Suzuki
Department of Virology
Institute of Wirology
4-6-1, Shirokanedal, Minaroku, Tokyo 108-8639, Japan
4-6-1, Shirokanedal, Minaroku, Tokyo 108-8639, Japan
5mail: ysuzukiteins.u-tokyo.ac.jp
Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Sugano
Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama, K., Suyama,A. and Sugano
Suzuki,Y., Yoshitomo Nakagawa,K., Maruyama, K., Suyama,A. and Sugano
Suzuki,Y., Zoshitomo Nakagawa,K., Maruyama,K., Suyama,A. and Sugano
Suzuki,Y., Zoshitomo Nakagawa,K., Maruyama,K., Suyama,A. and Sugano
Suzuki,Y., Zoshitomo Nakagawa,K., Maruyama,K., Suyama,A. and Sugano
Suzuki,Y., Turoshitomo Nakagawa,K., Maruyama,M., Suyama,A. and Sugano
Suzuki,Y., Turoshitomo Nakagawa,K., Maruyama,M., Suyama,A. and Sugano
Suzuki,Y., Turoshitomo Nakagawa,M., Suyama,M., Su
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 50)
                                                                                                                                 Homo sapiens
Eukaryota: Matazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalla; Eutherla; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 50)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /organism-"Homo sapiens"
/db_xxef="taxon:966"
/clone="CoL03075"
/clone="Libe-"Sugano Homo sapiens CDNA library"
/note="Differential display comparison of untreated and dimethyleumarate treated 1937 colls"
a 20 c 10 g re
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            O; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1.2%; Score 21; DB 9; Length 50; 82.8%; Pred. No. 6.3e+05; Live 0; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              491 ACATCCGGCTGCCTGAGGCTACCTGGAG 519
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 ACATCCAGCTGCCTGAGACCTTCCTGCAG 29
       AU102877
AU102877.1 GI:13552398
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          HRC08919, mRNA sequence.
AU105237
AU105237.1 CI:13554758
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Best Local Similarity 82.8
Matches 24; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
ACCESSION
VERSION
REYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AU105237/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                  JOURNAL
MEDLINE
COMBNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                JOURNAL
MEDLINE
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACCESSION
                                                                                                                                                                                                                              REFERENCE
                                                                                                                                                                                                                                                               AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AUTRORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURES
                                                                                                                                                                                                                                                                                                                                                         TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE
```

```
/Grow_inlow_rouse luxp plasmid oudcin library.
/Grow_inlow_rouse luxp plasmid oudcin library.
/Jab_host="E. Coli strain Xil0-Gold, Ti-resistant, F-"
/note="vector: PFD-270" | P
                                                                    Eukaryota: Metaroa; Chordata; Cranlata; Vertebrata; Euteleostomi;
Endamabla; Eutheria; Rodentla; Sciurogaathi; Muridae; Murinae; Mus.
El (bases 1 to 4)
El Jan. H. Longarce; S. Hahmoud, M., Meenen, E., Pedersen, T., Reilly Jan. H., Longarce; S. Hahmoud, M., Meenen, E., Pedersen, T., Reilly J. M., Rose; M., Rose; R., Stokes, R., Tingey, A., von Niederhausern, A. Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
In Ompublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah Genome Center
Rm. 306, Blomedical Polymers Research Bidg., 20 S. 2030 E., SLC, UT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AU106960 Sugano Homo sapiens CDNA library Homo sapiens CDNA clone AU106960. AUG. Sugano Homo sapiens CDNA library Homo sapiens CDNA clone AU106960. GI:13556481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /db_xref="taxon:10090"
/clone="UUGCIM0026F16"
/clone_lib="wouse lokb plasmid UUGCIM library"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 1.24; Score 20.6; DB 17; Length 48; Best Local Similarity 67.44; Pred. No. 7.8e+05; Matches 29; Conservative 0; Mismatches 14; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OY 1499 CTACTTCCATATTGCACTANAGGAGATTCAGCTACAAAAGGA 1541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    S CTANTGCATGTTCTACTGAAGTAGAATCACCAATTAAAAGA 47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tel: 801 585 5606
Fax: 801 585 7177
Fax: 801 585 7177
Fax: 801 585 7177
Insert Length: 10000 5td Error: 0.00
Flate: 0016 row: F column: 16
Seq primer: CACACAGGAAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 48.
Location/Qualiflers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /organism-"Mus musculus"/strain-"C57BL/6J"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 11
AU106960/c
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Source
                                       ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BASE COUNT
ORIGIN
                                                                                                                                                            REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURES
                                                                                                                                                                                                                                                                                                                                                                                  TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      윱
Editorial securing

Editorial securing

Editorial securing securin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /db_kref-"cand 10090'
//db_kref-"cand 10090'
//dlone_11b-"Mouse 10kb plasmid UUGC2M library"
//sax-"Femmale"
//ab_host-"E. coli strain XI:10-Gold, T1-resistant, F-"
//ab_host-"E. coli strain XI:10-Gold, T1-resistant, F-"
//note-"Vector: PWD42nv; Purified genomic DNA from Musculus C5/BL/GJ (female) was obtained from the Jackson Laboratory Mouse DNA Resource
//ttp://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
vas hydrodynamically sheared by repeated passage through a
vas blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar arceas. The
adaptored DNA was purified and size-selected for a 9.5 to
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (gil/373114|gp)AR129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
vith adaptors complementary to the linsert adaptors and
purified. The sheared, adaptored mouse DNA was annealed to
chemically-competent E. coll XLIO-Gold (Stratagene) cells
and selected for enplicillin resistance."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AZ311362 48 bp DNA linear GSS 29-SEP-2000 IM00SERIER Mouse 10kb plasmid UUGCIM library Mus musculus genomic clone UUGCIM0026F16 R, DNA sequence. AZ311362 AZ311362.1 GI:10354248 GSS. bouse mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ouery Match 1.24; Score 20.8; DB 17; Length 46; Best Local Similarity 70.04; Pred. No. 6.8e+05; Matches 28; Conservative 0; Mismatches 12; Indele (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       223 GATGAGAGTGGTGGTGGCGGCAGTGACCCTGGAGAGG 262
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Tel: 801 585 5606
Fax: 801 585 7177
Enal: duonnégenetics.utah.edu
Insert Length: 10000 5td Error: 0.00
Plate: 0279 row: E column: 13
Seq primer: CGTTGTAAAACGACGCCCAGT
Class: plasmid ends
High quality sequence stop: 46.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /organism="Mus musculus"
/strain="C57BL/61"
              ORGANISM
                                                                                                                                   REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                   JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AE311362
                                                                                                                                                                                                                                                                                                                                                     TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               a
```

Gapa

```
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with 74 DNA polymerase and 74 polymucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pwD42 (gil4721141gplA7129072.1), a copy.number inducible derivative of plasmid RI. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   45 bp DNA linear GSS 27-APR-2001 CLONE UNGCENDIE MOUSE 10kb plasmid UUGC2M library Mus musculus genomic clone UUGC2N0268F01 F, DNA sequence. A2985975 A2985975.1 GI:13857202 GSS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammaliai; Eutheria: Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 45)

Dunn, D., Aoyagi, A., Barbar, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weise, R.
                                                                                                                                                           Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
                                                    /strain="C57BL/6J"
/db_refe="basen:10000"
/db_refe="basen:10000"
/clone="UGCJN0059H04"
/clone_lib="Mouse l0kb plasmid UUGCIM library"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 1.2%; Score 20.4; DB 17; Length 47; Best Local Similarity 71.1%; Pred No. 8(56+05; Matches 27; Conservative 0; Wismatches 11; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0y 1644 GCTGGAGGGATGCCACACCCCTCACAGGGCAGCCCCCA 1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   38 GTTTGAAGGGGGCCCCCCCATCACAAGGCCCCCCCCA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                house mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mus musculus
        Bource
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 13
A2985975
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REPERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE
                                                                                                                                                                                                                                                                                                          Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: ysuzukieims.u-tokyo.ac.jp
Suzuki,Y., Yoshitomo-Nakagava,K., Maruyama,K., Suyama,A. and Sugano
Suzuki,Y., Toshitomo-Nakagava,K., Maruyama,K., Suyama,A. and Sugano
S. Construction and characterization of a full length-enriched and
Location/Qualifiers
                 Eukaryota; Metazoa; Chordata; Craniata; Vertchrata; Eutcleostomi; Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 50)

Suzuki, Y., Taira, H., Tsunoda, T., Mizushima-Sugano, J., Sese, J., Hata, H., Ota, T., Isogal, T., Tanaka, T., Morishita, S., Okubo, K., Sakaki, Y., Nakamura, Y., Suyama, A. and Sugano, S.

Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1M0059H04R Mouse 10kb plasmid UUGCIM library Mus musculus genomic clone UUGCIM0059H04 R, DNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mouse whole groome scaffolding with paired and reads from 10kb plasmid inserts
Onpublished (2000)
Contact: Robert B. Weiss
University of Tah Genome Center
University of Tah
Fm. 300, Blomcdical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Eukaryote: Metazoa: Chordata; Cranlata; Vertebrata; Euteleostomi; Mammala; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 47)

Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Looqacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, M., Stokes, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1. .50
/organism-*Homo sapiens*
/organism-*Homo sapiens*
/clone-*CAS09689*
/clone_ilb-*Sugano Homo sapiens CDNA library*
/note-*Differential display comparison of untreated and dimethylfumarate trated U937 cells*
a 14 c 18 g 11 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 1.2%; Score 20.6; DB 9; Length 50; Best Local Similarity 74.3%; Pred. No. 7.96+05; Matches 26; Conservative 0; Mismatches 9; Indels Matches 26; Conservative 0; Mismatches 9; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Email: ddunnégenetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0059 row: H column: 04
Cigay primer: CACACAGGAAACAGCTATGACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       922 CTGTTCCAGCTGCTCGTGGCCTAGCCA 956
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    43 CTTCCCAGCTGCGCCATGGCCGCCCTGCCGCA 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Bigh quality sequence stop: 47. Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A2331536.1 GI:10394326
                                                                                                                                                                                                                                                                                         Contact: Yutaka Suzuki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Tel: 801 585 5606
Fax: 801 585 7177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        house mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mus musculus
                                                                                                                                                                                                                                                           21270072
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DEFINITION
ORGANISM
                                                                                                                                                                                                                              JOURNAL
MEDLINE
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AZ331536/c
                                                                         REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                VERSION
KETWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PEATURES
                                                                                                                                                                                  TITCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ç
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   გ
```

Ş

Gaps ö

```
/(Issue_type='Thymus'
/(Issue_type='Thymus'
/(Issue_type='Thymus'
/(Isb_host='DH108"
/(Isb_host='DH108"
/(Isb_host='DH108"
/(Isb_host='DH108"
/(Isb_host='DH108"
/(Isb_host='DH108"
/(Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_host='Isb_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ISM Womo saplens
Eukaryota; Wetzaca; Chordata; Craniata; Vertebrata; Euteleostcomi;
Euthoria; Butheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 40)

RS II (cases 1 to 40)

RAtional Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Indicat Institute, Cancer Genome Anatomy Project (CGAP),
Ontact: Robert Strousberg, Ph.D.

Dmall: capabs-rémail nih, gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.

CDNA Library Preparation: Life Technologias, Inc.
CDNA Library Preparation: Life Technologias, Inc.
CDNA Library Preparation: Life Technologias, Inc.
CDNA Library Arrayed by: Greg Lannon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1186b06.x1 NCI_CGAP_Col4 Homo sapiens cDNA linear EST 14-APR-1999 tisebook.x1 NCI_CGAP_Col4 Homo sapiens cDNA clone IMAGE:2154899 3/ Salmilar to TR:017352 017352 REM-TYPE RNA BINDING PROTEIN. ; contains A1475974 A1475974 GI:4329019 EST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gapa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 1.2%; Score 20.2; DB 9; Length 49; Best Local Similarity 75.8%; Pred. No. 9.9e+05; Matches 25; Conservative 0; Mismatches 8; Indels
                                                                                                                                                                                                     /db_xref-'taxon:10090'
/clone-'TWAGE:64014'
/clone-'Ib-'Soares_thymus_2NbWT'
/sex-'male'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Trace considered overall poor quality Insert Length: 416 Std Error: 0.00 Seq primer: -40UP from G1bco High quality sequence stop: 1. Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:2154899"
/clone_lib="NCI_CGAP_CO14"
                                                                                                                                   /organism-"Mus musculus"/strain-"C57bL/6J"
                        High quality sequence stop: 1. Location/Qualiflers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 15
A1475974/C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE
AUTHORS
TITLE
                                                     FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURES
                                                                                                                                                                                                                                                                                                                                                                                       (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repeated with 74 DNA polymerase and 74 polymerase of the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Wector DNA was prepared from a derivative of pWHO2 (914/2)2114/99/AR139072.1), a copy-number inducible derivative of plasmid RI. The vector was ligated with adaptors complementary to the insert adaptors and adaptored hose sheared, adaptored mouse DNA was annealed to chemically-competent E. coil XLIO-Gold (Stratagene) cells and selected for empleill in resistance.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Eukaryota; Mctazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Hammalia; Eutheria; Rodentia; Sclurognathi; Muridae; Murinae; Mus. 1 (basea) to, Sturognathi; Muridae; Mus. 1 (basea) to, Sturoa, Mus. 1 (basea) to, Sturoa, T. Jacy, M., Bowles, M., Detrich, N., Dubuque, T., Geisel, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Norits, M., Theising, B., Wileor, T., Lennon, G., Soares, B., Wilson, R. and Theising, B., Wile, T., Lennon, G., Soares, B., Wilson, R. and The Nashu-HHHI Mouse EST Project
Unpublished (1996)
Confact: Marra M/Mouse EST Project
Washington University School of Medicinep 444 Forest Park Parkway, Box 8501, St. Louis, NO 63108
Fax: 314 286 1800
                                                                                                                                                                                                                                                   /lab_host="E. coll strain XLIO-Gold, Tl-registant, F-"
/note="Vector: PWD42nv; Purified genomic DNA from H.
musculus C5/BL/6J (female) was obtained from the Jackson
Laboratory Mouse DNA Resource
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AA204601 49 mRNA linear EST 19-FEB-1997 mu25c05.rl Soares_thymus_ZNDWT WUS musculus cDNA clone IMACE:640424 5' similar to SW:1436_BOVIN P29359 14-3-3 PROTEIN GAMMA :, mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Email: mouseest@watson.wustl.edu
This clone is available royalty-fre. .hrough LLNL; contact the
IMAGE Consortium (info@image.llnl.go., for further information,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0; Gaps
                                                                                                                                                                                     /clone_lib-'Mouse 10kb plasmid UGGC2M library'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Juery Match 1.2%; Score 20.2; DB 17; Length 45; Best Local Similarity 68.3%; Pred. No. 9.5e+05; 4atches 28; Conservative 0; Mismatches 13; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Trace considered overall poor quality
Possible reversed clone: Similarity on wrong strand
Seq primer: -28N13 rev2 from Amersham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4 AAGCAGCGTAAAGGATGGACAGGAATGCAGAGGTAGGCAGG 44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1. .45
/organism="Mus musculus"
/strain="C57BL/6J"
/db_rref="taxon:10090"
/clone="quGc2M0268F01"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AA204601
AA204601.1 GI:1800608
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             house mouse.
Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    18 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
    source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 14
AA204601/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       VERSION
KEYNORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
```

ð g

/tissue\_type-'moderately-differentiated adenocarcinoma"
/lab\_host-'DH10B"
/note-'Organ: colon; Vector: pCNV-SPORT6; Site\_1: Sali;
Site\_2: NOTI: Cloned unidirectionally. Frimer: Oligo dT.
Average insert size 1.7 kb. Life Technologies catalog #:
11511-019"
13 c 14 g 4 t

14 9

ö O; Gaps Ouery Match 1.1%; Score 20; DB 9; Length 40; Best Local Similarity 72.2%; Pred. No. 1e+06; Matches 26; Conservative 0; Mismatches 10; Indels BASE COUNT ORIGIN

. **g** õ

Search completed: March 4, 2003, 00:50:32 Job time : 2635 secs

ļ

```
Sequence 75. Appl
Sequence 25. Appl
Sequence 47. Appl
Sequence 17. Appl
Sequence 11. Appl
Sequence 12. Appl
Sequence 23. Appl
Sequence 35. Appl
Sequence 35. Appl
Sequence 37. Appl
Sequence 104. Appl
                                                                   March 3, 2003, 22:39:05; Search time 133 Seconds (without alignments) 8182.066 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 6, Appl1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                      US-10-017-621-3
1745
1 tggaagcagcgLaaaggatg.....gttcacctgcccacttgtcc 1745
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Description
                                                                                                                                                                                                                                                                                                                                                         GenCore version 5.1.4_p5_4578 Copyright (c) 1993 - 2003 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0 US-09-801-274-752
US-10-029-413A-25
US-10-029-413A-25
US-09-943-722-47
US-09-943-722-47
US-09-147-142-11
US-09-147-142-12
US-09-147-142-12
US-09-147-142-12
US-09-147-142-12
US-09-163-959-788
US-09-163-959-121
US-09-163-121
                                                                                                                                                                                                                                      Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                460893 seqs, 311809382 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SUMMARIES
                                                                                                                                                                                                                                                                                                         Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                               nucleic search, using sw model
                                                                                                                                                                           IDENTITY_NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ouery
Match Length DB
                                                                                                                                                                                                                                                                 Minimum DB seq length: 0 Maximum DB seq length: 50
                                                                                                                                                                         Scoring table:
                                                                                                                                     Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20.4
20.4
20.4
20.4
20.4
20.4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   119.4
                                             OM nucleic -
                                                                                                                                                   Sequence:
                                                                                                                                                                                                                                                                                                                                                            Database
                                                                      Run on:
```

```
MES-10-054-444-6

Sequence 6, Application US/1005444

Sequence 6, Application US/1005444

Sequence 6, Application US/1005444

Sequence 6, Application US/1005444

Sequence 6, Application Security Sequence 6. Sequence 6. Sequence 6. Sequence 7. Seq
                                                                                                                                                  Sequence 9, Appli
Sequence 13, Appl
Sequence 1, Appl
Sequence 10, Appl
Sequence 11, Appl
Sequence 12, Appl
Sequence 2, Appl
Sequence 2, Appl
Sequence 2, Appl
Sequence 2, Appl
Sequence 31, Appl
    Sequence 107, App
Sequence 1529; A
Sequence 5156, Ap
Sequence 11, Appl
Sequence 11, Appl
Sequence 11, Appl
Sequence 9, Appl
Sequence 9, Appl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Synthetic
US-10-054-444-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1.24; Score 21.8; DB 9; Length 48; 70.74; Pred. No. 9.5e+03; Atlye 0; Mismatches 12; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               962 AGAAGGTGCTACACGGAGACCTCAAGCCCCAGAACCTGCTC 1002
US-09-840-277-107
US-09-864-785-3433
US-09-864-785-3433
US-09-98-8428-5256
US-09-98-8428-311
US-10-219-248-311
US-09-98-772-311
US-09-98-772-312
US-09-98-772-312
US-10-026-914-10
US-10-026-914-10
US-10-026-914-10
US-10-026-914-10
US-10-026-914-10
US-10-026-914-10
US-10-026-914-10
US-10-031-918-2
US-10-031-918-2
US-10-031-918-2
US-10-031-918-2
US-10-031-256-24
US-09-864-785-3266
US-09-864-785-326
US-09-864-785-326
US-09-864-785-326
US-09-864-785-3367
US-09-864-785-3367
US-09-864-785-3367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2 AGAACCTCCTCCACCAGAACCTCCTCCACCAGAACCTCCTC 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 752, Application US/09801274; Petent No. US2002032319A1
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Cargill, Michala
APPLICANT: Ireland, James S.
    TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ouery Match
Best Local Similarity 70.71
Matches 29; Conservative
    RESULT 2
US-09-801-274-752
    U
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          q
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
APPLICANT:
TITLE OF INVENTION: METHOD OF ELIMINATING
TITLE OF INVENTION: INMIDITORY/INSTABILITY REGIONS OF MRNA
NUMBEN OF SEQUENCES: 130
CORRESPONDENCES: ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 145 PRRK AVENUE
CITY: NEW YORK
STATE: NEW YORK
                                                                                                                                                                                                                                                                                                                                                                                 Query Match 1.2%; Score 21; DB 10; Length 31; Best Local Similarity 77.4%; Pred. No. 1.34-04; Matches 24; Conservative 1; Nismatches 6; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION DATA:
APPLICATION NUBER: US 08/050,478
FILING DATE: Z6-CCT-1994
CLASSIFICATION DATA:
PRIOR APPLICATION DATA:
APPLICATION NUBER: CCT-VS93/02908
FILING DATE: 29-NAR-1993
CLASSIFICATION DATA:
APPLICATION NUBER: US 07/856,747
FILING DATE: 27-NAR-1992
CLASSIFICATION NUBER: US 07/856,747
FILING DATE: Z7-NAR-1992
CLASSIFICATION NUBER: 34,398
FREDREMCATION:
ATTORET/AGENT INFORMATION:
NAME: MORRY, MARY J.
REGISTRATION NUBER: 2026-4006US1
TELECOMUNICATION INFORMATION:
TELECOMUNICATION INFORMATION 
               PRIOR APPLICATION NUMBER: US 60/206,129
PRIOR FILING DATE: 2000-05-22
NUMBER OF SEQ ID NOS: 1802
SOFTWARE: FastSEQ for Windows Version 4.0
LENGTH: 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           577 GTCAGCCTATCTGAGATTGGCTTTGGGAAAC 607
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 GCCTCCCTGTCAGACMTTGGCTTTGGGAAAC 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDIUM TYPE: FLOPPY DISK
COMPUTER: IRM PC COMPATIBLE
COMPUTER: IRM PC COMPATIBLE
COMPATION SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ONORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/943,722
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE:
CLASSIFICATION:
PROCA APPLICATION DATA:
APPLICATION NUMBER: 08/850,049
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NS-09-943-722-47

Sequence 47, Application US/09943722

Publication No. US20020192660A1

GENERAL INFORMATION:

APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
                                                                                                                                                                                                                                    ; TYPE: DNA
; ORGANISM: HOMO SapienS
US-09-801-274-94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 3
US-10-029-413A-25
Squence 25, Application US/10029413A
Squence 25, Application US/10029413A
Squence 25, Application US/10029413A
Squence 25, Application US/10029413A
GENERAL INFORMATION:
APPLICANT: Malouf, Nadia
APPLICANT: Michols, Ilmothy C.
TITLE OF INVENTION: Polypeptides and Therapeutic and Screening Methods Osing Same
FILE REPERENCE: 421/29
SCHERAP PPLIANTION NUMBER: US/10/029,413A
CURRENT PLING DATE: 2002-03-21
NUMBER OF SEQ ID NOS: 29
SCOFTARE: Patentin version 3.1
SEQ 1D NO 25
LENGTH: 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 1.2%; Score 21.6; DB 10; Length 31; Best Local Similarity 80.0%; Pred. No. 8.8e+03; Natches 24; Conservative 1; Mismatches 5; Indels 0
APPLICANT: Lander, Eric S.
TILE OF INVERTION: HUMAN SINCLE NUCLECTIDE POLYMORPHISMS
FILE REFERENCE: 2825, 2009.001
CURRENT APPLICATION NUMBER: US/09/801.274
CURRENT APPLICATION NUMBER: US 60/187,510
PRIOR APPLICATION NUMBER: US 60/187,510
PRIOR APPLICATION NUMBER: US 60/206,129
PRIOR FILING DATE: 2000-03-07
PRIOR FILING DATE: 2000-05-22
NUMBER OF SEQ ID NOS: 1802
SOFTWARE: FastSEQ for Mindows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Oucry Watch 1.24; Score 21.4; DB 9; Length 45; Best Local Similarity 80.64; Pred. No. 1.2e+04; Matches 25; Conservative 0; Mismatches 6; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 94, Application US/09801274
; Patent No. US/2002032319A1
; Patent No. US/2002032319A1
; Patent No. US/2002032319A1
; APPLICANT: Cargill, Michole
; APPLICANT: Ireland, James S.
; APPLICANT: Ireland, James S.
; TITLE OF INVERTION: HUGAN SINGLE NUCLEOTIDE POLYMORPHISMS
; TITLE OF INVERTION: HUGAN SINGLE NUCLEOTIDE POLYMORPHISMS
; CURRENT APPLICATION NUMBER: US/09/801.274
; CURRENT FILING DATE: 2001-03-07
; PRIOR PLICATION NUMBER: US 60/187,510
; PRIOR PLICATION NUMBER: US 60/187,510
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       907 AACGIGAAACIGIICCIGIICCAGCIGCICC 937
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8 AAAGTGAAAATGTCCCTGTCCCAACTGCTAC 38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; ORGANISM: Homo saptens
US-09-801-274-752
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KET: partial_cDNA : LOCATION: (1)..(45) CTHER INFORMATION: US-10-029-413A-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-09-601-274-94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
```

Gapa

; TOPOLOGY; US-09-943-722-47

09-147-142-11

õ 8

```
Sequence 758, Application US/09263959
Patent No. US20020150891A1
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Hood, Leroy E.
APPLICANT: Roven, Lee
APPLICANT: Koop, Ben F.
TITLE OF INVATION: DIGGNOSTIC AND THERAPEUTIC COMPOSITIONS AND METHODS WHICH INTHER OF SEQUENCES: 1279
CORRESPONDENCE ADDRESS:
        FEATURE;
OTHER INFORMATION: Description of Artificial Sequence: synthetic
OTHER INFORMATION: oligonucleotide used to insert codon between VH
OTHER INFORMATION: and VL domains of NCIO serv-0
US-09-147-142-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 40;
                                                                                                                                                                        Length 45;
                                                                                                                                                               Query Watch 1.1%; Score 20; DB 10; Length 45
Best Local Similarity 65.9%; Pred. No. 2.8e+04;
Matches 29; Conservative 0; Nismatches 15; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                  643 GGTACCTATGCCACCGTCTACAAAGGCAAAAGCAAGCTCACAGA 686
                                                                                                                                                                                                                                                                                                  COMPUTER REDABLE FORM:
HEDIUM TYPE: Floppy disk
HEDIUM TYPE: Floppy disk
HEDIUM TYPE: Floppy disk
HEDIUM TYPE: Floppy disk
OPERATING SISTEM: PC-DOS/MS-DOS
SOFTMARE: PERCENTEN RELEASE #1.0, Version #1.25
CURENT APPLICATION DATA:
APPLICATION NUMBER: US/09/263,959
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; DB 10;
3c+04;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADDRESSEE: Seed and Berry LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATTORNEY/AGENT INFORMATION:
NAME: MCHASters, David D.
REGISTRATION NUMBER: 33,963
REFERENCE/DOCKET NUMBER: 920010.426C2
TELECONMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 758:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
1.1%; Score 19.8; C
Best Local Similarity 77.4%; Pred. No. 3c+C
Matches 24; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1689 CTTCCCTGCTTACTCTCTGCCTACCTGCCTG 1719
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3 CTICCTTCTTTCTTTCTTCCTGCCTGCTG 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 235, Application US/09790417
Patent No. USZ0010031470A1
GENERAL INFORMATION
APPLICANT: Shultz, John W
APPLICANT: Lewis, Martin K.
APPLICANT: Lieppe, Donna
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH: 40 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STATE: Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY: US
ZIP: 98104-7092
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Seattle
                                                                                                                                                                                                                                                                                                                                                                                                                             US-09-263-959-758
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; TOPOLOGY;
US-09-263-959-758
                                                                                                                                                                                                                                                                     õ
                                                                                                                                                                                                                                                                                                                 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ð
                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: HUDSON, Peter John
APPLICANT: HUDSON, Peter John
APPLICANT: HUDSON, Peter John
APPLICANT: Alex Andrew
APPLICANT: Alex Andrew
APPLICANT: ATWELL, John Lealle
TITLE OF INVENTION: HIGH AVIDITY POLYVALENT AND POLISPECIFIC REAGENTS
FILE REFERENCE: 016 86/012
CURRENT APPLICATION NUMBER: US/09/147,142
CURRENT FILING DATE: 1999-03-05
EARLIER APPLICATION NUMBER: PCT/AUS8/00212
BARLIER FILING DATE: 1999-03-26
BARLIER FILING DATE: 1999-03-27
NUMBER OF SEO ID NOS: 32
SOFTWARE: PALENTIN VGF. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SPECIALLY HUDSON, Peter John
SPECIAL AROUNDSON, Peter John
APPLICANT: HUDSON, Peter John
APPLICANT: HUDSON, Peter John
APPLICANT: RIVING, Robert Alexander
APPLICANT: ATWELL, John Lealie
TITLE CO INVENTION: HIGH AVIDITY POLIVALENT AND POLYSPECIFIC REAGENTS
FILE REFERENCE: 016796/0212
CURRENT APPLICATION NUMBER: US/09/147.142
CURRENT FILEM DATE: 1999-03-05
EARLIER FILING DATE: 1999-03-05
EARLIER FILING DATE: 1999-03-26
EARLIER FILING DATE: 1999-03-26
EARLIER FILING DATE: 1997-03-27
NUMBER OF SEQ ID NOS: 32
SOFTHANE: PALENTIN VAY: 2.0
                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: synthetic
OTHER INFORMATION: oligonuclectide used to insert codon between VH
OTHER INFORMATION: and VL domains of NCIO scFv-0
                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                 Length 48;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 1.1%; Score 20; DB 10; Length 45; Best Local Similarity 65.9%; Pred. No. 2.8e+04; Matches 29; Conservative 0; Mismatches 15; Indels
                                                                     Query Match 1.2%; Score 20.4; DB 9; Length 4 Best Local Similarity 71.1%; Prad. No. 2.3a+04; Matches 27; Conservative 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     325 GAGATTGTGCACGAGGACTTGAAGATGGGGTCTGATGG 362
                                                                                                                                                                                                     1111 1111 1 1 1 11111 1111 1111 11111 7 GAGACGGAGGATGGATGG 44
                                                                                                                                                                                                                                                                                                                                                          Sequence 11, Application US/09147142
Patent No. US20020018749A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; Sequence 12, Application US/09147142; Patent No. US20020018749A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Artificial Sequence
LINEAR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ·09-147-142-12/c
```

ò 윱 ö

Gaps

ö

SEQ ID NO 12 LENGTH: 45 TYPE: DNA

```
TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: KTEISVITCH, Barry N
APPLICANT: National Applicant: National Applicant: National Applicant: National Applicant: National Applicant National Applicant National Applicant National Nati
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Kreisvirth, Barry N
APPLICANT: Nadich, Steven M
TITLE OF INVENTION: System and Method for Tracking and Controlling Infections
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CTHER INFORMATION: Description of Artificial Sequence:probe for oligo CTHER INFORMATION: 54
US-09-790-417-235
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 1.1%; Score 19.6; DB 10; Length 42; Best Local Similarity 66.7%; Pred. No. 3.5e+04; Matches 28; Conservative 0; Mismatches 14; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ouery Match 1.1%; Score 19.4; DB 7; Length 45; Best Local Similarity 64.4%; Pred. No. 4.1e+.
Matches 29; Conservative 0; Mismatches 16; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OY 1288 ATCCTGTCCAAGGAGTTCAAGACATACAACTACCCCAAGTAC 1332
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   759 GTCCCTGCTCAAGGACCTCAAACACGCCAACATCGTTACGCT 800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     42 GTACCTGGTAAATGAACTCACCACGATATCATCACCAAGCT 1
APPLICANT: Mandrekar, Michelle
APPLICANT: Rephart Daniel
APPLICANT: Rephart Daniel
APPLICANT: Rhodes, Richard B.
APPLICANT: Andrews, Christine A.
APPLICANT: Hartnett, James R.
APPLICANT: Gls, Trent
APPLICANT: Wood. Keith W.
APPLICANT: Wood. Keith W.
APPLICANT: Wood. Keith W.
TITLE OF INVENTION: Nucleic Acid Detection
FILE REFERENCE: Pro-103 6868/7528
FILE REFERENCE: Pro-103 6868/7528
FILE REFERENCE: 190-103 6868/7528
FILE REPERENCE: 190-103 6868/7528
FRIOR APPLICATION NUMBER: 09/358,972
PRIOR APPLICATION NUMBER: 09/042,287
PRIOR APPLICATION NUMBER: 09/042,287
PRIOR FILING DATE: 1998-03-13
PRIOR FILING DATE: 1998-03-13
SEQ ILING DATE: 1998-03-13
SEQ ID NO 215
FENGTH: 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 10
US-10-073-226-27/C
; Sequence 27, Application US/10073256
; Patent No. US20020120408A1
: GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 35, Application US/10073256; Patent No. US20020120408A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; TYPE: DNA
; ORGANISM: Enterococcus faecalis
US-10-073-256-27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: DNA
OKGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 11
US-10-073-256-35/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
```

```
US-09-263-959-121/C
Sequence 121, Application US/09263959
Percent No. US20020150891A1
GENERAL INFORMATION:
APPLICANT: Hood, Leroy E.
APPLICANT: ROWED, Lee
APPLICANT: KOOD, Ben F.
TITLE OF INVENTION: DIAGNOSTIC AND THERAPEUTIC COMPOSITIONS AND WETHODS WHICH UNAURER OF SEQUENCES: 1279
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                     Saps
                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                              Query Match 1.1%; Score 19.4; DB 12; Length 45; Best Local Similarity 64.4%; Pred. No. 4.1e+04; Matches 29; Conservative 0; Mismatches 16; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 31;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 517, Application US/09801274

Retent No. US20020012319A1

GENERAL INFORMATION:
APPLICANT: Cargill, Michele
APPLICANT: Ireland, James S.
APPLICANT: Ireland, James S.
TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS
FILE REPERENCE: 282.2000-001
CURRENT APPLICATION HUMBER: US 60/187, $10
FRIOR PELICATION NUMBER: US 60/206,129
FRIOR FILING DATE: 2000-03-07
PRIOR FILING DATE: 2000-03-07
PRIOR FILING DATE: 2000-03-07
PRIOR FILING DATE: 2000-03-07
SPRIOR FILING DATE: 2000-03-07
SPRIOR FILING DATE: 2000-03-07
SOFTWARE FASTESED FOR MINDOWS VERSION 4.0
SEQ ID NOS: 1802
LENGTH: 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                    OY 1288 ATCCTGTCCAACGAGGAGTTCAAGACATACAACTACCCCAAGTAC 1332
                                                                                                                                                                                                                                                                                                                                                                                                                                 45 AACCAGTGAAACCAGTAATACAAGCGAAAGCAGCACCTCAAGTAC 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 1.1%; Score 19.2; DB 10; Best Local Similarity 80.8%; Pred. No. 3.9e+04; Matches 21; Conservative 1; Mismatches 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADDRESSEE: Seed and Berry LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
FILE REFERENCE: 19124.0002
CURRENT APPLICATION NUMBER: US/10/073,256
CURRENT FILING DATE: 2002-02-13
NUMBER OF SEQ ID NOS: 80
SOFTWARE: PatentIn version 3.1
LENGTH: 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1190 CCACAGGCGGTCCCCTCTTTCCGGGC 1215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     S CCACAGGCCTTYCCCTCTTCGTGGGC 30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STREET: 6300 Columbia Center,
CITY: Seatile
STATE: Hashington
COUNTRY: US
IP: 98104-7092
COMPUTER READABLE FORM:
WEDIUM TYPE: Floppy disk
COMPUTER: IEM PC compatible
                                                                                                                                                                                           ; TYPE: DNA
; ORGANISM: Enterococcus faecalis
US-10-073-256-35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM: Homo saptens
US-09-801-274-517
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 12
US-09-801-274-517
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 23. Application US/09376940A

Publication No. US20020192813A1

SEMERAL INFORMATION:

APPLICAMT: Conner, Timothy W

APPLICAMT: Sontino, Colleen G

ITLE OF INVENTION: No. US2002 0192813A1e1 Plant Expression Vectors

FILE REFERENCE: monocot elementa

CURRENT APPLICATION NUMBER: 05/09/376,940A

CURRENT APPLICATION NUMBER: 60/097150

EARLIER APPLICATION NUMBER: 60/097150

SAFRIER PLING DATE: 1998-08-19

NUMBER OF SED ID NOS: 63

SOFWARE: Patentin Ver. 2.1

SED ID NO 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        : OTHER INFORMATION: Description of Artificial Sequence:synthetic US-09-376-940-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 46;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Watch 1.1%; Score 19; DB 9; Length 43; Best Local Similarity 65.1%; Pred. No. 5.1e+04; Matches 28; Conservative 0; Mismatches 15; Indels
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/263,959
FILING DATE: 05-MAR.1999
CLASSIFICATION:
ATTORNET/ACENT INFORMATION:
NAME: HCMAGRET AD WINGER: 33,963
REGISTRATION NUMBER: 33,963
REFERENCE/COKET UNMBER: 920010.426C2
TELECHOUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEPHONE: (206) 622-4900
TELEPHONE: (206) 622-4900
SEQUENCE CHARACTERISTICS:
LENGTH: 46 base poins
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             79 GGCCCCGCGCCTCTGAGGTTGCTCGCGCGCCCCCGCCGATCG 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     43 GIGTCCACCCACCCTCGATCTCTCGCTCGCCCCCCGATCG 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 1.14; Score 19.2; DB 10; Best Local Similarity 75.04; Pred. No. 4.7e+04; Matches 24; Conservative 0; Mismatches 8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Shuping Tong et al.
TITLE OF INVENTION: HEPADNAVIRUS RECEPTOR
NUMBER OF SEQUENCES: 75
CORRESPONDENCE ADDRESS:
ADDRESSEE: Plsh & Richardson P.C.
STREET: 225 Franklin Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          319 GCACCAGAGATTGTGCACGAGGACTTGAAGAT 350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 32, Application US/09818066
Patent No. US20020032307A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 14
US-09-376-940-23/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 15
US-09-818-066-32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
```

```
COMPUTE: U.S.A.

COMPUTE: 0.110-2804

COMPUTE: 10.110-2804

COMPUTE: 1.S.A.

CLASSIPICATION NUMBE: 1.S.A.

COMPUTE: 1.S.A.

C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 1.1%; Score 19; DB 10; Length 45; Best Local Similarity 71.4%; Prod. No. 5.2e+04; Matches 25; Conservative 0; Mismatches 10; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 32:
US-09-818-066-32
STATE: Massachusetts
```

ö

Caps ö

Search completed: March 4, 2003, 00:54:25 Job time : 134 secs

\$82. App \$83. App \$84. App \$84

OM nucleic

Run on:

Seguence:

Searched:

```
RESULT 1
US-08-334-177-5
1 US-08-334-177-5
1 Sequence 5, Application US/08334177
2 Sequence 5, Application US/08334177
3 Fatent No. 5696086
3 GENERAL INFORMATION:
4 APPLICANT: ATTACH, Paul J.
5 TITLE OF INVENTION: Methods and Kits Using Macrophage Stimulating Protein
6 CORRESPONDENCES:
7 CORRESPONDENCE:
7 CONTRESPONDENCES:
7 CONTRESPONDENCE:
7 CONTRESPONDENCE:
7 CONTRESPONDENCES:
7 CONTRESPONDENCE:
7 CONTRESP
                                                                                                                                                            Sequence
                                                                   Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 47;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADDRESSEE: Generach, Inc.
STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
STATE: California
COUNTRY: USA
IP: 94080
COMPUTER READABLE FORM:
WEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
COMPUTER: IBM PC compatible
OFFRATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/34,177
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    / Natch 1.3%; Score 22.2; DB 1;
Local Similarity 69.8%; Pred. No. 5.8e+03;
Nes 30; Conservative 0; Mismatches 13;
                              US-08-206-176-19

US-08-171-395-882

US-08-475-228A-582

US-08-482-000A-582

US-09-482-000A-582

US-09-354-947-582

US-09-354-947-582

US-08-752-844-38

US-08-752-844-38

US-08-752-844-38

US-08-752-844-38

US-08-752-844-38

US-08-752-844-38

US-08-752-844-38

US-08-752-848-35

US-08-176-412-6

US-08-555-268A-5

US-08-555-268A-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              241 GGGGGGAGGGCCCTGGAGAGGCCCCACACGTGCTGCTCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ALIGNMENTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REGISTRATION NUMBER: 35,600
REGISTRATION NUMBER: 35,600
REPERRNCE/DORGET NUMBER: 912
TELECONOMICATION INFORMATION:
TELEFRAX: 415,725-5416
TELEFRAX: 415,955-981
TELER: 910,731-716
INFORMATION FOR SEQ ID NO: 5: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: nucleic acid
STRANDEDNESS: single
STOPOLOGY: linear
US-08-334-177-5
119.6
119.6
119.6
119.2
119.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Best Local
Matches
à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 5, Appl1
Sequence 5, Appl1
Sequence 9, Appl1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 9, Appl. Sequence 156, Appl. Sequence 136, Appl. Sequence
                                                                                                                                                                             March 3, 2003, 22:35:55; Search time 76 Seconds (without alignments) 7041.460 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                    1 tggaagcagcgtaaaggatg.....gttcacctgcccacttgtcc 1745
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 38
Sequence 47
Sequence 47
Sequence 47
Sequence 47
Sequence 13
Sequence 13
Sequence 13
Sequence 13
Sequence 13
Sequence 19,
Sequence 19,
Sequence 19,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
             GenCore version 5.1.4_p5_4578
Copyright (c) 1993 - 2003 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-08-507-426C-9
US-08-171-189-156
US-08-171-189-156
US-08-475-228A-156
US-08-482-080A-156
US-09-34-447-156
PCT-US33-17388-156
US-08-233-009-33
US-08-859-916-18
US-08-859-916-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-08-050-478-47
US-09-414-117-47
US-09-46-43-47
US-09-68-43-47
US-08-26-918A-13
US-09-150-8648-13
US-09-150-864-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         441362 seqs, 153338381 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                             - nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                              IDENTITY_NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                              US-10-017-621-3
1745
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query
Match Length D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Minimum DB seq length: 0 Maximum DB seq length: 50
                                                                                                                                                                                                                                                                                                                                                                                                                                 Scoring table:
                                                                                                                                                                                                                                                                                                                                         Perfect score:
```

Database :

ö

Gaps

ö

ö

PCT-US95-13830-5

a

```
Gaps
                                                                                                                                                                                                                                                        ö
       OTHER INFORMATION: Description of Artificial Sequence:Synthetic CTHER INFORMATION: ribozymes and portions thereof US-08-507-426C-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Edwards, Cynthla A. APPLICANT: Cantor, Charles R. APPLICANT: Cantor, Charles R. APPLICANT: Turin, Lisa M. APPLICANT: Turin, Lisa M. APPLICANT: Turin, Lisa M. APPLICANT: Fry, Kirk E. TITLE OF INVERTION: Sequence-Directed DNA Binding TITLE OF INVERTION: Molecules, Compositions and Methods NUMBER OF SEQUENCES: ADDRESSE: Genelabs Technologies, Inc. STREET: 505 Penobscot Drive CITY: Redwood City
                                                                                                                                                                               Ouery Match
1.2%; Score 21.8; DB 4; Length 44;
Best Local Similarity 70.7%; Pred. No. 7.2e+03;
Matches 29; Conservative 0; Mismatches 12; Indels
                                                                                                                                                                                                                                                                                                                     1559 CGTCGATGCCTGACTCAGGCGAGGCCAGCTTTCCGCGTGGTG 1599
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TOPOLOGY: linear
HAPOTHETYPE: DNA (genomic)
HAPOTHETYCAL: NO
CRIGINAL SOURCE:
INDIVIDUAL ISOLATE: Human H1 histone gene FNC16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ZIP: 94063
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PARENTEN Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/171,389
                                                                                                                                                                                                                                                                                                                                                               4600-0175/G19P3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CCLASSIFICATION: 6.35

REIGN APPLICATION DATA:
APPLICATION NUMBER: US 08/123,936
FILING DATE: 17-SEP-1993
PRION APPLICATION DATA:
APPLICATION NUMBER: US 07/996,783
FILING DATE: 23-DEC-1992
PRION APPLICATION DATA:
APPLICATION NUMBER: US 08/081,070
FILING DATE: 27-JUN-1991
PRION APPLICATION DATA:
APPLICATION NUMBER: US 08/081,070
FILING DATE: 22-JUN-1993
APPLICATION NUMBER: US 08/081,070
FILING DATE: 22-JUN-1993
APPLICATION NUMBER: US 08/081,070
FILING DATE: AL-0860
FILING DATE: AL-0860
FILERNA: (415) 324-0860
FILERNA: (415) 324-0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 156, Application US/08171389
Patent No. 5578444
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 4
US-08-171-389-156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STATE:
                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 3

US-08-507-426C-9/C

US-08-507-426C-9/C

Sequence 9, Application US/08507426C.

Sequence 9, Application US/08507426C.

Sequence 9, Application US/08507426C.

Sequence 9, Application US/08507426C.

Sequence 9, Application Polymore Plants Producing Trible OF INVENTION: TO VIRUSES AND RESISTANT PLANTS PRODUCING THIS TILLE OF INVENTION: TO VIRUSES AND RESISTANT PLANTS PRODUCING THIS STILE REFERENCE: 43944-A-PCT-US

CORRENT FILING DATE: 1995-10-25

PRIOR APPLICATION NUMBER: 43944-A-PCT-US

PRIOR APPLICATION NUMBER: 43944-A-PCT-US

PRIOR PLING DATE: 1995-10-25

HUMBER OF SEQ ID NOS: 14

SEQ ID NOS: 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                 APPLICANT: Genentech, Inc.
APPLICANT: New England Deaconess Hospital Corp.
TITLE OF INVENTION: Methods and Kits Using Nacrophage Stimulating
TITLE OF INVENTION: Protein
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 1.3%; Score 22.2; DB 5; Length 47; Bost Local Similarity 69.8%; Pred. No. 5.8e+03; Matches 30; Conservative 0; Mismatches 13; Indels
2 GGACGAATCCACCATGGGGTGGCTCCCACTCCTGCTGCTTCTG 44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDIUW TYPE: 3.5 inch, 1.44 Mb floppy disk COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOTTHARE: Winbatin (Genentech) CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/13830
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   241 GGCGGCAGTGACCCTGGAGGCCCCCCACACGTGCTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CLASSIFICATION:
ATORNEY/ACENT INFORMATION:
NAME: Marschang, Diane L.
REGISTRATION NUMBER: 35,600
REFERENCE/DOCKET NUMBER: P0912PCT
TELEPHONE: 415/225-516
TELEPHONE: 415/952-9881
                                                                                                                                                                Sequence 5, Application PC/TUS9513830 ; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEFAX: 415/952-9881
TELEX: 910/31-7168
INFORMATION FOR SEQ ID NO: 5: SEQUENCE CHARACTERISTICS:
LENGTH: 47 Dase parts
TYPE: NUCLEIC ACID
STRANDEDNESS: SINGIE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ZIP: 94080
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 incl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; TOPOLOGY: Linear
PCT-US95-13830-5
```

ò g

FILING DATE:

```
APPLICANT: Edwards, Cynthia A.
APPLICANT: Cantor, Charles R.
APPLICANT: Andrews, Beth M.
APPLICANT: Turin, Lisa M.
APPLICANT: Fry, Kirk E.
TITLE OF INVENTION: Sequence-Directed DNA Binding
NUMBER OF SEQUENCES: 664
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE: 06-JUN-1955
PRIOR APPLICATION NUMBER: 05-500-1955
PRIOR APPLICATION NUMBER: 05-06/13,936
FILING DATE: 17-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 05-07/996,783
FILING DATE: 27-104-1992
PRIOR APPLICATION NUMBER: 05-07/23,618
FILING DATE: 27-JUN-1991
PRIOR APPLICATION NUMBER: 05-07/23,618
FILING DATE: 27-JUN-1991
PRIOR APPLICATION NUMBER: 05-08/081,070
FILING DATE: 27-JUN-1993
APPLICATION NUMBER: 05-08/081,070
FILING DATE: 27-JUN-1993
APPLICATION NUMBER: 05-08/081,070
FILING DATE: 27-JUN-1993
APPLICATION NUMBER: 05-08/081,070
FELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   INDIVIDUAL ISOLATE: Human H1 histone gene FNC16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION UNBER: US/08/475,228A
FILING DATE: 06-UNN-1995
                                                                                                                                                                                                                                                                                                          ADDRESSEE: Genelabs Technologies, Inc. STREET: 505 Penobscot Diive CITY: Redwood City
US-08-475-228A-156

; Sequence 156, Application US/08475228A

; Patent No. 5869241

; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                     21P: 94063
COMPUTER REALABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEPHONE: (415) 324-0860
TELEFAX: (415) 324-0960
INFORMATION FOR SEQ ID NO: 156:
SEQUENCE CHARACTERISTICS:
LENGTH: 46 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      double
                                                                                                                                                                                                                                                                                             CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: nucleic acid
STRANDEDNESS: doub
                                                                                                                                                                                                                                                                                                                                                                                                                     USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-08-475-228A-156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         a
                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                     Sequence 156, Application US/08123936
; Patent No. 5726014
; GAERAL INFORMATION:
APPLICANT: Educads, Cynthia A.
APPLICANT: Cantor, Charles R.
APPLICANT: Andrews, Beth M.
TITLE OF INVENTION: Screening Assay for the Detection of TITLE OF INVENTION: DNA-Binding Molecules
NUMBER OF SEQUENCES: 640
CORRESPONDENCES: Genelabs Technologies, Inc.
STREET: 505 Penobscot Drive
CITY: Redwood City
          Ouery Match 1.2%; Score 21.4; DB 1; Length 46; Best Local Similarity 71.8%; Pred. No. 9.3e+03; Matches 28; Conservative 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ouery Match 1.24; Score 21.4; DB 1; Length 46; Best Local Similarity 71.84; Pred. No. 9.37.03; Matches 28; Conservative 0; Mismatches 11; Indels
                                                                                                     COMPUTER REACABLE FORM:
MEDIUM TYRE: Floppy disk
MEDIUM TYRE: Floppy disk
COMPUTER: IBM PC COMPALIDIE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARR: PAGENTER RELEASE #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/123,936
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 : INDIVIDUAL ISOLATE: Human H1 histone gene FNC16
US-08-123-936-156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1641 GCGGCTGGAGGGATGCCACACCCCTCACAGGGCAGCCCC 1679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2 GCGTGGATTGGACGCTCCACCAATCACAGGCAGCGCC 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4600-0075.32/G19P2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/996,783
FILING DATE: 23-DEC-1992
PRIOR APPLICATION NUMBER: US 07/723,618
FILING DATE: 27-JUN-1991
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME: FEBIAN, GATY R.
REGISTRATION NUMBER: 33,875
REFERENCE/DOCKET NUMBER: 4600-
TELECHAUNICATION JAFORNATION:
TELEFRAX: (415) 324-0860
INFORMATION FOR SEQ ID NO: 156:
SEQUENCE CHARACTERISTICS:
LENGTH: 46 base pairs
TYPE: nucleic acid
STARNDEDNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TOPOLOGY: 11near
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORIGINAL SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           94063
                                                                                                                                                                                                                                                     08-123-936-156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STATE: C
```

ö Gaps ö Query Match 1.2%; Score 21.4; DB 2; Length 46; Best Local Similarity 71.8%; Pred. No. 9.3e+03; Matches 28; Conservative 0; Mismatches 11; Indels Indels 1641 GCGGCTGGAGGGATGCCACACCCCTCACAGGGCAGCCCC 1679 2 GCGGTGGATTGGACGTCCACCAATCACAGGGCAGCGCC 40 RESULT 7
US-08-482-080A-156
: Sequence 156, Application US/08482080A
: Patent No. 6010849
: GENERAL INPORMATION:
: APPLICANT: Edwards, Cynthia A.

> ò a

```
Query Match 1.2%; Score 21.4; DB 4; Length 46; Best Local Similarity 71.8%; Pred. No. 9.38+03; Matches 28; Conservative 0; Mismatches 11; Indels
               APPLICANT: Turin, Lisa M.
APPLICANT: Fry, Kirk E.
TILLE OF INVENTION: Sequence-Directed DNA Binding
TILLE OF INVENTION: Molecules, Compositions and Methods
NUMBER OF SEQUENCES: 664
CORRESPONDENCE ADDRESS:
ADDRESSES: Genelabs Technologies, Inc.
STREET: 505 Penobscot Drive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence-Directed DNA Binding
Molecules, Compositions and Methods
641
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: PC-DOS/MS-DOS SOFTWARE: Patentin Release #1.0, Version #1.25 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/09/354,947
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: Human H1 histone gene FNC16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1641 GCGGCTGGAGGGATGCCACACCCCTCACAGGGCAGCCCC 1679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME: Brady, John F.
REGISTRATION NUMBER: 39,118
REFERENCE/DOCKET NUMBER: 4600-0175.20/G1993D1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 324-0880
TELEFAX: (650) 324-0800
INFORMATION FOR SEQ ID NO: 156:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2 GCGGTGGATTGGACGCTCCACCAATCACAGGGCAGCGCC 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 06/482,080
FILING DATE: 07-JUN-1993
APPLICATION NUMBER: US 08/171,389
FILING DATE: 20-DEC-1993
APPLICATION NUMBER: US 08/123,936
FILING DATE: 17-528P-1993
APPLICATION NUMBER: US 07/996,783
FILING DATE: 23-DEC-1992
APPLICATION NUMBER: US 07/723,618
FILING DATE: 23-DEC-1992
APPLICATION NUMBER: US 07/723,618
FILING DATE: 23-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/723,618
FILING DATE: 22-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/723,618
FILING DATE: 22-JUN-1991
AND NUMBER: US 07/723,618
FILING DATE: 22-JUN-1991
AUDICATION NUMBER: US 08/081,070
FILING DATE: 22-JUN-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 156, Application PC/TUS9312388
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: Sequence-Directe
TITLE OF INVENTION: Molecules, Compo
                                                                                                                                                                                                                                                                                                                                                                                                 ZIP: 94063
COMPUTER READABLE FORM:
MEDIUM TIPE: Floppy disk
COMPUTER: IBM PC COMPALIBLE
OPERATING SYSTEM: PC-DOS/MS-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TOPOLOGY: linear
NOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH: 46 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                nucleic acid
                                                                                                                                                                                                                                                                                                  Redwood City
                                                                                                                                                                                                                                                                                                                                                                          USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PCT-US93-12388-156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-09-354-947-156
                                                                                                                                                                                                                                                                                                                                    STATE: C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 1.2%; Score 21.4; DB 3; Length 46; Best Local Similarity 71.8%; Pred. No. 9.3e+03; Matches 28; Conservative 0; Mismatches 11; Indels
APPLICANT: Cantor, Charles R.
APPLICANT: Andrews, Beth M.
APPLICANT: Turin, Lisa M.
APPLICANT: Fry, Kirk E.
TITLE OF INVENTION: Sequence-Directed DNA Binding
TITLE OF INVENTION: Molecules, Compositions and Methods
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION WUMBER: US/08/482,080A
FILING DATE: 07-JUN-1995
PRIOR APPLICATION NATA:
APPL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; INDIVIDUAL ISOLATE: Human H1 histone gene FNC16 US-08-482-080A-156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1641 GCGGCTGGAGGATGCCACACCCTCACAGGGCAGCCCC 1679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME: Brady, John F.
REGISTRATION NUMBER: 39,118
REFERENCE/DOCKET NUMBER: 4600-0175.20/G19P3D1
TELECOMOUNICATION INFORMATION:
TELEFRAM: (650) 324-0880
TELEFRAM: (650) 324-0860
INFORMATION FOR SEQ 1D NO: 156:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2 GCGGTGGATTGGACGCTCCACCAATCACAGGCAGCGCC 40
                                                                                                                                                                                                                                                                               ADDRESSEE: Genelabs Technologies, Inc. STREET: 505 Penobscot Drive CITY: Redwood City STATE: CA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION WUMBER: US 07/996,783
FILING DATE: 23-DEC-1992
PHOR APPLICATION DATA:
APPLICATION WUMBER: US 07/723,618
FILING DATE: 27-UNN-1991
RIOR APPLICATION DATA:
APPLICATION WUMBER: US 08/081,070
FILING DATE: 22-JUN 1993
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 8
US-09-34-947-156
Sequence 156, Application US/09354947
Petent No. 6384208
GENERAL INFORMATION:
APPLICANT: Edwards, Cynthia A.:
APPLICANT: Cantor, Charles R.
APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MOLECULE TYPE: DNA (genomic) HYPOTHETICAL: NO ORIGINAL SOURCE: INDIVITOR:
                                                                                                                                                                                                                                                                                                                                                                                                                                               ZIP: 94063
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: nucleic acid
STRANDEDNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                        USA
                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      q
```

ô

Caps

```
APPLICANT: Selton, Dale
APPLICANT: Glaser, Scott
APPLICANT: Glaser, Scott
APPLICANT: Hose, Walliam
APPLICANT: Hose, Walliam
TITLE OF INVENTION: No. 5728821e1 Mutant BR96 Antibodies and
TITLE OF INVENTION: Functional Equivalents Reactive With Human Carcinomas
CORRESPONDENCE, ADDRESS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 1.2%; Score 20.6; DB 1; Length 45; Best Local Similarity 67.4%; Pred. No. 1.5e+04; Matches 29; Conservative 0; Mismatches 14; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       737 CCTGCACCGCCATCCGGGAAGTGTCCCTGCTCAAGGACCTCAA 779
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY: USA
ZIP: 90035-3395
COMPUTER READABLE FORM:
MEDIUM TYRE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION NDATA:
RPLICATION NUMBER: US/08/285,936
FILING DATE: 04-ANG-1994
CLASSIFICATION: 424
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2 CCTGCACCACCAACTGCTTAGCCCCCTGGCCAAGGTCATCCA 44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADDRESSEE: Merchant & Gould
STREET: 11150 Santa Monica Bldv., Suite 400
CITY: Los Angeles
STATE: CA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATTORNEY/AGENT INFORMATION:
NAME: Adriano, Sarah B.
REGISTRATION NUMBER: 34,470
REPERENCE/DOCKET NUMBER: 30436.16US01
TELECOMUNICATION INFORMATION:
TELECAME: 310-445-9031
INFORMATION FOR SEQ ID NO: 38:
SEQUENCE CHARACTERISTICS:
LENGTH: 45 base pairs
TYPE: nucleic acid
TTPE: nucleic acid
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/233,009
FILING DATE: 25-APR-1994
CLEASTEICATION: 424
ATTORNEY/ACENT INFORMATION: 424
ATTORNEY/ACENT INFORMATION: 424
ATTORNEY/ACENT INFORMATION: TELEPRONEC/DOCKET NUMBER: 1919
TELECONGUNICATION INFORMATION: TELEPRONE: (908) 594-3901
TELEPRONE: (908) 594-3701
TELEPRONEC (908) 594-3701
SEDUENCE CHARACTERISTICS: LENGTH: 45 base pairs
LENGTH: 45 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 11
US-08-285-916-38/C
Sequence 38, Application US/08285936
Patent No. 5728821
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
                                                                                                                                                                                                                                                                                                                                                        TYPE: nucleic acid
STRANDEDNESS: both
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ANTI-SENSE:
US-08-233-009-33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 33, Application US/08233009
Patent No. 5645156
GENERAL INFORMATION:
APPLICANT: Jacobson, Marlene A
APPLICANT: Johnson, Robert G
APPLICANT: Salvatore, Christopher A
TITLE OF INVENTION: INHIBITION OF EOSINOPHIL
TITLE OF INVENTION: ACTIVATION THROUGH A3 ADENOSINE RECEPTOR ANTAGONISM
NUMBER OF SEQUENCES: 56
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merck 6 Co., Inc.
STREET: P.O. BOX 2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ouery Match
1.2%; Score 21.4; DB 5; Length 46;
Best Local Similarity 71.8%; Pred. No. 9.3e+03;
Matches 28; Conservative 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME: Fablan, Gary R.
REGISTRATION NUMBER: 33,875
REFERENCE/DOCKER NUMBER: 4600-0175.41/G19PCT2
FELECOMUNICATION INFORMATION:
TELECOMUNICATION INFORMATION:
TELECAX: (415) 324-0860
TELETAX: (415) 324-0960
INFORMATION FOR SEQ ID NO: 156:
SEQUENCE CHARACTERSTICS:
LENGTH: 46 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTANE: PATENTIN Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/12388
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ZIP: 07065
COMPUTER REMDABLE FORM:
COMPUTER: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1641 GCGGCTGGAGGATGCCACACCCTCACAGGGCAGCCCC 1679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2 GCGTGGATGGACGCTCCACCAATCACAGGGCAGCGCC 40
               CORRESPONDENCE ADDRESS:
ADDRESSEE: Genelabs Technologies, Inc.
STREET: 505 Penobscot Drive
                                                                                                                                                                                                                                                                                                                                        FILING DATE:
CLEASIFICATION:
PRIOR APPLICATION NATA:
APPLICATION NUMBER: US 08/123,936
FILING DATE: 17-SEP-1993
PRIOR APPLICATION NUMBER: US 07/996,783
FILING DATE: 23-DEC-1992
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CITY: Rahway
STATE: New Jersey
COUNTRY: United States
ZIP: 07065
                                                                                                                                                                        COMPUTER READABLE FORM:
                                                                                     Redwood City
                                                                                                                                                        94063
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-08-233-009-33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 å
```

ö

Gaps .. 0

ò g

```
RESULT 14
US-08-050-478-47
Sequence 47. Application US/08050478
Fatant No. 5972596
GENERAL INFORMATION:
APPLICANT:
APPLIC
           TILLE OF INVENTION: INHIBITORY/INSTABILITY REGIONS OF MRNA NUMBER OF SEQUENCES: 130
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
1.2%; Score 20.4; DB 2; Length 48;
Best Local Similarity 71.1%; Pred. No. 1.7e+04;
Matches 27; Conservative 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     325 GAGATTGTGCACGAGGACTTGAAGATGGGGTCTGATGG 362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   7 GAGACGGTGCCCGTGAAGTTGAAGCCGGGGATGGATGG 44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDIUM TIVE: ELLOYEL ELLONGO MEDIUM TIVE: COMPUTER: DAY PC COMPATIBLE OPERATING STSTEM: PC-DOS/NS-DOS SOCTANE: WORDERRECT 5.1
CURRENT APPLICATION DATA: APPLICATION NUMBER: US/08/850.049
FILINC DATE: 20-NX-1997
CLASSIFICATION NUMBER: US 08/050,478
FILINC DATE: 26-CCT-1994
CLASSIFICATION NUMBER: US 08/050,478
FILINC DATE: 29-NAR-1993
CLASSIFICATION NUMBER: US 07/858,747
FILINC DATE: 29-NAR-1993
CLASSIFICATION NUMBER: US 07/858,747
FILINC DATE: 27-NAR-1992
TELECOMMUNICATION INFORMATION:
TELECOM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3: MORGAN & PINNEGAN
345 PARK AVENUE
                                                                                                                                                                                                                                                                                                                                                     COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STRANDEDNESS: SI
TOPOLOGY: LINEAR
US-08-850-049-47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NEW YORK
NEW YORK
Y: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STATE: NI
COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-08-48-860-38/c
US-08-48-860-38/c
Datent No. 5792456
GENERAL INFORMATION:
APPLICANT: Yelton, Dale
APPLICANT: Huse, William
APPLICANT: Rosok, Mae J.
TITLE OF INVERTION: Functional Equivalents Reactive With Human Carcinomas NUMBER OF SEQUENCES: 62
                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                Query Match 1.24; Score 20.6; DB 1; Length 45; Best Local Similarity 67.44; Pred. No. 1.5e+04; Natches 29; Conservative 0; Mismatches 14; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ouery Match 1.2%; Score 20.6; DB 1; Length 45; Best Local Similarity 67.4%; Pred. No. 1.5e+04; Matches 29; Conservative 0; Mismatches 14; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:

EDIUM TYPE: F10PDPy disk
COMPUTER READABLE FORM:

EDIUM TYPE: F10PDPy disk
COMPUTER PARDABLE FORM:

COMPUTER TYPE: F10PDPy disk
COMPUTER: Parcentin Release #1.0, version #1.25
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/487,860
FILING DATE: 07-JUM-1995
CLASSIFICATION: 330
ATTORNEY/ACRAT INFORMATION:
NAME: Adriano, Sarah B.

REGISTMATION NUMBER: 34,470
REFERENCE/DOCKET UNDBER: 34,470
REFERENCE/DOCKET UNDBER: 34,470
REFERENCE/DOCKET UNDBER: 310436.16US01
TELEPAX: 310-445-1140
TELEPAX: 310-445-1140
TELEPAX: 310-445-1140
TELEPAX: 310-445-1010
TELEPAX: 310-445-1140
TELEPAX: 310-445-1140
TELEPAX: 310-445-9031
TELEPAX: 310-445-1140
                                                                                                                                                                                                                                                                                                  328 ATTGTGCACGAGGACTTGAAGATGGGGTCTGATGGGGAGAGTG 370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  328 ATTGTGCACGAGGACTTGAAGATGGGGTCTGATGGGGAGAGTG 370
                                                                                                                                                                                                                                                                                                                                                                 CORRESPONDENCE ADDRESS:
ADDRESSEE: Merchant & Gould
STREET: 11150 Santa Monica Bldv., Suite 400
CITY: Los Angeles
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-08-850-049-47
; Sequence 47, Application US/08850049
; Patent No. 5965726
; GENERAL INFORMATION:
APPLICANT:
APPLICANT:
APPLICANT:
TITLE OF INVENTION: METHOD OF ELIMINATING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CITY: LOS
STATE: CA
COUNTRY: U
US-08-285-936-38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 12
```

ö

ö

õ 8 29-MAR-1993

```
Search completed: March 4, 2003, 00:52:00 Job time : 80 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 47, Application US/09414117
Sequence 47, Application US/09414117
Patent No. 629164
GENERAL INFORMATION:
APPLICANT:
APPLICANTON: INHIBITORY/INSTABILITY REGIONS OF MRNA
UNHBER OF SEQUENCES: 130
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARR AVENUE
CIT: NEW TORK
STATE: NEW TORK
COUNTRY: USA
IP: 10154
COMPUTER READALE FORM:
WEDTUM TYPE: FLOPPY DISK
COMPUTER: 16H PC COMPATIBLE
OPPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
FILING DATE.
FILING DATE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ouery Match 1.2%; Score 20.4; DB 2; Length 48; Best Local Similarity 71.1%; Pred. No. 1.7e+04; Matches 27; Conscrvative 0; Mismatches 11; Indels
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBH PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US-08/050.478
FILING DATE: 29-MA-1993
CLASSIFICATION UNDER: PCT/US93/02908
FILING DATE: 29-MA-1993
CLASSIFICATION WINBER: PCT/US93/02908
FILING DATE: 29-MA-1993
CLASSIFICATION WINBER: US-07/058.747
FILING DATE: 27-MAR-1992
CLASSIFICATION WINBER: US-07/058.747
FILING DATE: 37-MAR-1992
CLASSIFICATION WINBER: 2026-4006US)
FEEDEMONE: (212)754-6849
INFORMATION FOR SEQ ID NO: 47:
SEQUENCE CHARACTERISTICS:
LENGTH: 48 BASE PAIRS
TYPE: NUCLEIC ACID
STRANDENBES: SINGLE
TOPOLOGY: LINEAR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    325 GAGATTGTGCACGAGGACTTGAAGATGGGGTCTGATGG 362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILLING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCI/US93/02908
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/850,049
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-09-414-117-47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            윱
```

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                               Ouery Match 1.24; Score 20.4; DB 4; Length 48; Best Local Similarity 71.14; Pred. No. 1.7e+04; Matches 27; Conservative 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           325 GAGATTGTGCACGAGGACTTGAAGATGGGGTCTGATGG 362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          7 GAGACGGTGCCCGTGAAGTTGAAGCCGGGGATGGATGC
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/858,747
FILING DATE: 27-MAR-1992
CLASSIFICATION:
APTONREY/AGENT UNDER: 34,398
REGISTATION NUMBER: 34,398
REGISTATION NUMBER: 34,398
REGISTATION NUMBER: 34,398
REFERENCE/DOCKET NUMBER: 2026-4006051
FLEEPHONE: (212)751-6849
INFORMATION FOR SEQ ID NO: 47:
SEQUENCE CHARACTERISTICS:
LENGTH: 48 BASE PAIRS
TPE: NUCLEIC ACID
STRANDEDNESS: SINGLE
US-09-414-117-47
```

PURA DISTRICT LOUIS ON A DISTRICT POLYMENT PHUMBAN SNP 01190NUC DE19705591 primer PCR primer 143 for human SNP 01190NUC XCG31 degenerate primer for amplify Human CIDB 3' PCR Human CYLOKLINE SET PURA TOT CONTAGENO HUMAN PICTON-Adeno Human proton-adeno Human pro

Corneodesmosin since the corneodesmosine since the

Reverse PCR primer

Low adenosine anti Human adenosine Al Nucleotide sequenc Human single nucle

Human A2b adenosin Human adenosine A2 Human adenosine A2

Sequence:

Run on:

Searched:

Database

```
Immunosuppressive; immunostimulatory; antiinflammatory; cytostatic; neuroprotective; antimicrobial; gene therapy; vaccine; amylase; cancer: amyloid protein; anglopoletin; gene therapy; vaccine; amylase; cancer: amyloid protein; anglopoletin; gene therapy; related protein; cyclin; polymerase; concogene; histone; kinase; colony stimulating factor; complement related protein; cytochrome; kinesin; cytokine; interferon; nitarilaukin; G-protein couplad receptor; thiosatases; inflammation; multifactorial disease; aucoimmune disease; infection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ALIGNMENTS
                                                                                           AAT07598
AAT00670
AAL27875
AA I 72077
                                                                                                                                             AAQ50230
AAV46356
AAQ76190
AAT91033
ABL54053
ABK46869
                                                                                                                                                                                                                                                                                                      AAL43619
AA291309
AAZ67885
AAL29783
                                                                                                                                                                                                                                                                                                                                                           AAL34645
AAC62589
AAT76056
AAX53859
AAF19424
AAA33302
AAA33302
AAA33302
                                                                                                                                                                                                                                                     AA231379
                                                                                                                                                                                                                                        AAD17287
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human SNP oligonucleotide #7543.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 1
AAL34335/c
LD AAL34335 standard; DNA; 50 BP
XX
  28-DEC-1999; 99US-0173419, 27-DEC-2000; 2000US-0173419,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               28-DEC-2000; 2000MO-US35498
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          24-JAN-2002 (first entry)
 22444444444444444444444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          #0200147944-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo saptens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   05-JUL-2001.
                                                                           AAL34335;
                                                                                                                                                                                                                                                                                                                                                                       19.
19.
19.
19.
Human SNP oligonuc
Human Cdk5 related
Human Cdk5 related
Human slingle nucle
Human slingle nucle
PCR primer SR53 fo
1foG coding region
Human Kl histone g
                                                                            March 3, 2003, 19:29:35 ; Search time 427 Seconds (Without alignments) 9203.131 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                    1: // SIDS2/godata/geneseq/geneseqn-embl/NA1980.DAT:
2: // SIDS2/godata/geneseq/geneseqn-embl/NA1981.DAT:
3: // SIDS2/godata/geneseq/geneseqn-embl/NA1981.DAT:
4: // SIDS2/godata/geneseq/geneseqn-embl/NA1981.DAT:
5: // SIDS2/godata/geneseq-embl/NA1981.DAT:
5: // SIDS2/godata/geneseqn-embl/NA1981.DAT:
6: // SIDS2/godata/geneseq-embl/NA1981.DAT:
7: // SIDS2/godata/geneseq-embl/NA1981.DAT:
8: // SIDS2/godata/geneseq-embl/NA1981.DAT:
9: // SIDS2/godata/geneseq-embl/NA1981.DAT:
9: // SIDS2/godata/geneseq-embl/NA1991.DAT:
10: // SIDS2/godata/geneseq-embl/NA1991.DAT:
11: // SIDS2/godata/geneseq-embl/NA1991.DAT:
12: // SIDS2/godata/geneseq-embl/NA1991.DAT:
13: // SIDS2/godata/geneseq-embl/NA1991.DAT:
14: // SIDS2/godata/geneseq-geneseq-embl/NA1991.DAT:
15: // SIDS2/godata/geneseq-embl/NA1991.DAT:
16: // SIDS2/godata/geneseq-embl/NA1991.DAT:
17: // SIDS2/godata/geneseq-geneseq-embl/NA1991.DAT:
18: // SIDS2/godata/geneseq-geneseq-embl/NA1991.DAT:
19: // SIDS2/godata/geneseq-geneseq-embl/NA1991.DAT:
10: // SIDS2/godata/geneseq-geneseq-embl/NA1991.DAT:
11: // SIDS2/godata/geneseq-geneseq-embl/NA1991.DAT:
12: // SIDS2/godata/geneseq-geneseq-embl/NA1991.DAT:
13: // SIDS2/godata/geneseq-geneseq-embl/NA1991.DAT:
14: // SIDS2/godata/geneseq-geneseq-embl/NA1991.DAT:
15: // SIDS2/godata/geneseq-geneseq-embl/NA1991.DAT:
16: // SIDS2/godata/geneseq-geneseq-embl/NA1991.DAT:
17: // SIDS2/godata/geneseq-geneseq-embl/NA1991.DAT:
18: // SIDS2/godata/geneseq-geneseq-embl/NA1991.DAT:
18: // SIDS2/godata/geneseq-embl/NA1991.DAT:
19: // SIDS2/godata/geneseq-geneseq-embl/NA1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                              1 tggaagcagcgtaaaggatg.....gttcacctgcccacttgtcc 1745
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Description
        GenCore version 5.1.4_p5_4578 Copyright (c) 1993 - 2003 Compugen Ltd.
                                                                                                                                                                                                                                                  Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                              2185239 seqs, 1125999159 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SUMMARIES
                                                                                                                                                                                                                                                                                                                      Post-processing: Minimum Match 00
Maximum Match 1000
Listing first 45 summaries
                                                       OM nucleic - nucleic search, using aw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAL34335
ABA04099
ABA04100
AAL30264
AAL75839
AAL29606
AAH22523
AAD29563
                                                                                                                                                                                        IDENTITY_NUC Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1242222242
                                                                                                                                 US-10-017-621-3
1745
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Minimum DB seq length: 0 Maximum DB seq length: 50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query
                                                                                                                                                                                                                                                                                                                                                                                                                                Title:
Perfect score:
                                                                                                                                                                                         Scoring table:
```

(CURA-) CURAGEN CORP

22.1.4 22.2.2 23.4.4 21.4.4 21.4.4 21.4.4 21.4.4

26789

U U

į

υ

Result

ö

Gaps

ö

1.3%; Score 22.4; DB 24; Length 33; 81.2%; Pred. No. 2.8e+04; tive 0; Mismatches 6; Indels (

```
The present invention describes medicinal compositions (I) inhibiting beta-amyloid production comprising an active component a substance that inhibits the activity of cyclin-dependent kinase (CDK). Also described are: (I) a method for screening compounds for their ability to inhibit the production of beta-amyloid by contacting with beta-amyloid producing cells; and (2) screening kits. (I) have mootropic and meuroprotective activities. (I) suppress the phosphorylation of amyloid precursor protein (APP) which is an essential step in the production of beta-amyloid. (I) such as demonstrated and prevention of neurodependentive diseases such as demonstrate disease. The present sequence represents a pRR primer which is used in the exemplification of the present
                                                                                                                                                                                                                                                                                                                                                                                 Sequence 33 BP; 6 A; 6 C; 11 G; 10 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1018 GAGCTCAAGCTGGCTGACTTTGGCCTGGCCCG 1049
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2 GAGCTGAAATTGGCTAATTTTGGCCTGGCTCG 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 3
ABA04100/c
ID ABA04100 standard; DNA; 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 Similarity 81.21
26; Conservative
                                                                                                                                                                                                                                                                                                                                  invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ABA04100;
                                                                                                                                                                                                                                                                                                                                                                                                                                           Ouery Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Best Loca
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
            8
                                                                                                                                                                                                                                                                 The present invention relates to oligonucleotides encoding polymorphic variants of proteins related to amylases, amyloid proteins, angiopoletin, cappoposis related proteins, cadherin, cyclin, polymerase, oncogenes, histones, kinases, colony stimulating factors, complement related by those coupled receptors and thioesterases. The present sequence is one such oligonucleotides and the peptides encoded by them may be used in the prevention, diagnosis and the peptides encoded the sasors associated with inappropriate expression of the proteins listed above. Disorders that may be prevented, diagnosis and treatment of above. Disorders that may be prevented, diagnosed and/or treated include cisases (e.g. rheumatoid arthitis, multiple sclerosis, diabetes) continue erythmomatosus and Grave's disease), inflammation, cancer continue cisases of the bladder, brain, breast, colon and kidney, concerned the prevented of the nervous system and an infection of pathogenic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                         Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases, oncogenes and histones, useful for diagnosing and treating, e.g. cancer, autoimmune diseases and infections .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Medicinal compositions for the treatment of dementia and Alzheimer's disease, comprise compounds that suppress beta amyloid production
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human; beta-amylold; cyclin-dependent kinase inhibitor; nerve cell;
amylold precursor protein; APP; Cdk5; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 50;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1619 CAGACCGAGGCCCCAGCAGGCAGGGGTGGAGGGATGCCACACC 1662
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Local Similarity 72.7%; Pred. No. 7.8e+03; es 32; Conservative 0; Mismathle-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 50 BP; 7 A; 13 C; 14 G; 16 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Hachlya S;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human Cdk5 related PCR primer SEQ ID NO:18.
                                                                                                                                                                                                                         Claim 1; Page 3563; 4143pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Suzuki T, Watanabe T, Kawabata S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 6; Page 23; 62pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (YAMA ) YAMANOUCHI PHARM CO LTD. (SUZU/) SUZUKI T.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ABA04099 standard; DNA; 33 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              25-APR-2001; 2001WO-JP03555.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   28-APR-2000; 2000JP-0131037.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                21-FEB-2002 (first entry)
   Leach M;
                                                    WPI; 2001-465210/50.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4PI; 2002-026209/03.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     W0200182967-A1.
Shimkets RA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          08-NOV-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABA04099;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Best Loca
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABA04099
```

ò a

```
The present invention describes medicinal compositions (1) inhibiting beta-amyloid production comprising an active component a substance that inhibits the activity of cyclin-dependent kinase (DBK). Also described are: (1) a method for screening compounds for thair ability to inhibit the production of beta-amyloid by contacting with beta-amyloid producing cells; and (2) screening kits. (1) have moofropic and neuroprodective activities. (1) suppress the phosphorylation of amyloid precursor protein (APP) which is an essential step in the production of beta-amyloid. (1) can be used in the treatment and prevention of neurodegenerative diseases such as dementia and Alzhelmer's disease. The present sequence represents
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Medicinal compositions for the treatment of dementia and Aizheimer's disease, comprise compounds that suppress beta amyloid production
                                                                                                                                Human; beta-amyloid; cyclin-dependent kinase inhibitor; nerve cell; amyloid precursor protein; APP; Cdk5; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                      ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 33 BP; 10 A; 11 C; 6 G; 6 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                  Hachiya
                                                                                               Human Cdk5 related PCR primer SEQ ID NO:19.
                                                                                                                                                                                                                                                                                                                                                                                                Suzuki T, Watanabe T, Kawabata S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 6; Page 23; 62pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                 (YAMA ) YAMANOUCHI PHARM CO LTD. (SUZU/) SUZUKI T.
   BP.
                                                                                                                                                                                                                                                                                                                28-APR-2000; 2000JP-0131037.
                                                                                                                                                                                                                                                                               25-APR-2001; 2001WO-JP03555.
                                                                21-FEB-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2002-026209/03.
                                                                                                                                                                                                               W0200182967-A1.
                                                                                                                                                                                 Homo sapiens.
                                                                                                                                                                                                                                               08-NOV-2001.
```

3

BP.

ò

```
Human; single nucleotide polymorphism; SNP; genome; gene therapy;
protein therapy: vaccine; probe; diagnostic assay; detection;
quantitation; restorative therapy; polymorphic; ds.
                                                                                                                                                                                                                                                                                                                                                                             Polymorphic nucleic acid sequences, useful in genetic testing and
                                                                                              Human silent SNP containing nucleic acid SEQ:2780.
                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 1; Page 901; 2653pp; English.
                                                                                                                                                                                                                                                                 30-NOV-1999; 99US-0168138.
29-NOV-2000; 2000US-0726173.
                                                                                                                                                                                                                                           30-NOV-2000; 2000WO-US32758.
                        AAI75839 standard; DNA; 50
                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                               Shimkets RA, Leach M;
                                                                                                                                                                                                                                                                                                       (CURA-) CURAGEN CORP.
                                                                                                                                                                                                                                                                                                                                                       WP1; 2001-356160/37.
                                                                                                                                                                                             HO200140521-A2.
                                                                                                                                                                       Homo sapiens.
                                                                                                                                                                                                                    07-JUN-2001.
                                                                        09-NOV-2001
                                               AA175839;
                                                                                                                                                                                                                                                                                                                                                                                         therapy
RESULT 5
AAI75839
ID AAI7
                                               ò
                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to the identification of nucleic acid molecules (AAI3913-AAI3114) from the human genome which include polymorphic sites which can predispose individuals to disease. Walfous genes from a number (SNPs) in these genes discovered. The method is useful for predicting the presence, absence or severity of a particular phenotype or disorder (e.g. diabetes) associated with a particular genotype. The nucleic acids containing the polymorphic sites may be useful in forensics and paternity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Nucleic acid molecules from the human genome which include polymorphic sites, useful in methods for predicting the presence, absence or severity of a particular phenotype or disorder (e.g. diabetes) associated with a particular genotype
                                  Caps
                                                                                                                                                                                                                                  Human; resequence; genotype; disease; forensic; paternity testing;
single nucleotide polymorphism; SNP; ss.
                                                                                                                                                                                                                                                                                           Location/Qualifiers
replace(16,T)
/*tag= a
/*standard_name= *single nucleotide polymorphism*
                                ö
         Length 33;
                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 31;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ouery Match 1.3%; Score 22; DB 22; Length 31, Best Local Similarity 83.3%; Pred. No. 3.4e+04; Matches 25; Conservative 0; Mismatches 5; Indels
     Score 22.4; DB 24;
Pred. No. 2.8e+04;
0; Mismatches 6;
                                                                                                                                                                                                        Human single nucleotide polymorphism (SNP) 97.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 31 BP; 8 A; 11 C; 8 G; 4 T; 0 other;
                                                 1018 GAGCTCAAGCTGGCTGACTTTGGCCTGGCCCG 1049
                                                                  32 GAGCTGAAATTGCCTAATTTTGCCTCCTCG 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (WHED ) WHITEHEAD INST BIOMEDICAL RES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Cargill M, Ireland JS, Lander ES;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 1; Page 75; 145pp; English.
                                                                                                                                        쁍
                                                                                                                                                                                                                                                                                                                                                                                                                             07-MAR-2000; 2000US-0187510.
22-MAY-2000; 2000US-0206129.
                                                                                                                                     AAI30264 standard; DNA; 31
                                                                                                                                                                                                                                                                                                                                                                                                       07-MAR-2001; 2001WO-US07268
                                                                                                                                                                                    (first entry)
               Best Local Similarity 81.2
Matches 26; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2001-522952/57.
                                                                                                                                                                                                                                                                                                                                                         MO200166800-A2.
                                                                                                                                                                                                                                                                       Homo sapiens.
                                                                                                                                                                                  18-OCT-2001
                                                                                                                                                                                                                                                                                                                                                                                13-SEP-2001.
                                                                                                                                                           AAI30264;
                                                                                                                                                                                                                                                                                                          Variation
     Query Match
                                                                                                              RESULT 4
```

```
ANT31060 to ANT3967 represent isolated human polymorphic polynucleotide sequences (I), which contain single nucleotide polymorphisms (SNPs).

ANT3114 to ANM3129 represent peptides related to human polymorphic polymorphic for human polymorphic.

Complemental sequences. The sequences can be used in gene and protein the represent of blessess and therefore the prevention, diagnosis and treatment of diseases associated with inappropriate expression of polymorphic polypeptides. For example, (I) may be used to treat disorders by rectifying mutations or of complements on production of polymorphic factority of patients own production of polymorphic state of similar nucleic acids complementary sequences may also be used as DNA probes in diagnostic complementary sequences may also be used as DNA probes and therefore which patients may be used as antigens in the production of multibodies specific for polymorphic polypeptides. The complementary is production of multibodies specific for polymorphic polypeptides. The antibodies may also be used as diagnostic agents for detecting the presence of polymorphic polypeptides in samples.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 50;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1.3%; Score 22; DB 22; Length 50; 73.7%; Pred. No. 4.2e+04; tive 0; Mismatches 10; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1642 CGGCTGGAGGGATGCCACACCCTCACAGGGCAGCCCC 1679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 50 BP; 7 A; 22 C; 13 G; 8 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAI29606 standard; DNA; 31 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   28; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Best Local Similarity
Matches 28; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAI29606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              å
```

ö

Gaps

ö

979 GACCTCAAGCCCCAGAACCTGCTCATCAAC 1008

ò a

2 GACATCAAGCCCCAGAACCTGCTGGTGGAC 31

```
The invention relates to a method of obtaining a stable transplastome, by transforming a recipient plastome (RP) with a polynuclectide having a 5' sequence homologous to a region of RP, and joined to it, a sequence regulatory region capable of securing expression of coding region in the regulatory region capable of securing expression of coding region in the plastid and joined to it, and a 3' sequence homologous to a region of RP. The method is useful for obtaining a transplastomic plastid, anyloplast, chansforming a plastome within a plastid such as proplastid, anyloplast, chromoplast, etioplast or leucoplast, preferably chloroplast. The method provides high, uniform, reliable expressed protein. The plants, with stable inheritance of the trait by avoiding the potential containing a present sequence represents a PCR primer for amplifying a ifnd coding region, used in generating expression vectors for ifnd in chloroplasts.
                                                                                                                                                                                                                                                                                          Obtaining a stable transplastome for producing a transplastomic cell, plant or seed, comprises transforming a recipient plastome with a polynucleotide comprising a 5' and 3' sequence homologous to the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Transgenic plant; transplastomic plant; medicament; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        lfnG coding region DNA amplifying PCR primer, SR53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 1.2%; Score 21.4; DB 22; Best Local Similarity 80.6%; Pred. No. 5.6e+04; Matches 25; Conservative 0; Mismatches 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 42 BP; 15 A; 10 C; 11 G; 6 T; 0 other;
                                                                                                                                                                      (ITGE+) INT CENT GENETIC ENG & BIOTECHNOLOGY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (ITGE-) INT CENT GENETIC ENG & BIOTECHNOLOGY.
                                                                                                                                                                                                             Reddy S, Sadhu L, Shukla V, Ferraiolo G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              270 ACGIGCIGCICCIGGGGAACTICCITCIGCA 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   35 ACGTACGGGTCCTGGCGACCTTCGATCTGCA 5
                                                                                                                                                                                                                                                                                                                                                                                                  Example 12; Page 127; 128pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                95
                                                              08-DEC-2000; 2000MO-BP12446.
                                                                                                        08-DEC-1999; 99GB-0029075.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               13-JUL-2001; 2001WO-EP08132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         14-JUL-2000; 2000GB-0017397
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 8
AAD29563/c
ID AAD29563 standard; DNA; 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               07-MAY-2002 (first entry)
                                                                                                                                                                                                                                                     WPI; 2001-381671/40.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Reddy VS, Sadhu L;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              W0200206497-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Unidentified.
                       14-JUN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        24-JAN-2002
                                                                                                                                                                                                                                                                                                                                                             recipient
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAD29563;
    ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to the identification of nucleic acid molecules (AA129513-AA131314) from the human genome which include polymorphic sites which can predispose individuals to disease. Warious genes from a number of individuals were resequenced and single nucleotide polymorphisms (SNPs) in these genes discovered. The method is useful for predicting the presence, absence or severity of a particular phenotype or disorder (e.g. diabetes) associated with a particular genetype. The nucleic acids containing the polymorphic sites may be useful in forensics and paternity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Nucleic acid molecules from the human genome which include polymorphic stes, useful in methods for predicting the presence, absence or severity of a particular phenotype or disorder (e.g. diabetes) associated with a particular genotype
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gapa
                                                                              Human; resequence; genotype; disease; forensic; paternity testing; single nucleotide polymorphism; SNP; ss.
                                                                                                                                                                                                                                  /*tag= a
/standard_name= "single nucleotide polymorphism"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             plastome; plastid; chloroplast; transgene; plant;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Oucry Match 1.2%; Score 21.4; DB 22; Length 31; Best Local Similarity 80.6%; Pred. No. 4.9e+04; Matches 25; Conservative 0; Mismatches 6; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                         Human single nucleotide polymorphism (SNP) PCTAIRE3 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PCR primer SR53 for amplifying a ifnG coding region.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 31 BP; 6 A; 9 C; 8 G; 8 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              577 GTCAGCCTATCTGAGATTGGCTTTGGGAAAC 607
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (WHED ) WHITEHEAD INST BIOMEDICAL RES.
                                                                                                                                                                                         Location/Qualifiers replace(16,C)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Cargill M, Ireland JS, Lander ES;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 1; Page 34; 145pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             07-MAR-2001; 2001WO-US0726B.
                                                                                                                                                                                                                                                                                                                                                                                                                  07-NAR-2000; 2000US-0187510.
22-NAY-2000; 2000US-0206129.
18-OCT-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2001-522952/57.
                                                                                                                                                                                                                                                                                            WO200166800-A2
                                                                                                                                               Homo sapiens
                                                                                                                                                                                                                                                                                                                                   13-SEP-2001
                                                                                                                                                                                                             Variation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              testing.
```

õ g

Š

ö

Gaps

ö

Length 42; Indels

```
Claim 28; Page 290; 587pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 1997-020402/02.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo saptens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         27-JUN-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US5578444-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20-DEC-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               27-JUN-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      23-DEC-1992;
17-SEP-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Andrews BM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                26-NOV-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AA069891).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAT63868;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AT63868

AT63868

XX

AT63868

XX

XX

AT638

XX

BUDDE

WW TFIID

WW TFIID

WW TFIID

XX

XX

PN US557

XX

PR 25-U0

PR 27-U0

PR 27-U
          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                            The patent discloses a method of producing a protein of interest which involves a expressing a polynucleotide fusion construct in a plastid to produce a fusion protein comprising the protein of interest where the construct comprises a polynucleotide coding sequence of the protein of necest operably linked to a polynucleotide coding sequence of a fusion protein partner. The methods of the invention are useful for producing a critic variant of fragment, a pharmacuticially active protein of interest which comprises a human protein or its biologically active variant or fragment, a human IFN clinkerferon, its biologically active variant or fragment, a human IFN clinkerferon, its biologically active variant or fragment, a human IFN clinkerferon, its biologically active variant or fragment, a human incompanient of the production of transgenic plants. Nethods of the invention are also useful for the generation of transplastomic plant cells, plants and seeds the protein of interest obtained by the methods of the invention is useful for the menufacture of a medicament for breating a disease condition. The present DNA sequence is a PCR primer which is used for amplification of the invention to generate pGUSIFNG expression content for inferior the exemplification of the invention to generate pGUSIFNG expression contents.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                            Producing a protein of interest, e.g., a pharmaceutically active protein, comprises expressing a polynucleotide fusion construct in plastid and producing a fusion protein comprising the protein of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DNA protein-binding assay; test sequence; screening sequence; promoter; target; TATA box; Herpes Simplex Virus; HSV; origin of replication; UL9; transcription factor; TFIID: ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Match 1.24; Score 21.4; DB 24; Length 42; Local Similarity 80.64; Pred. No. 5.6e+04; cs 25; Conservative 0; Mismatches 6; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Turin LM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence-directed DNA-binding molecules - useful in pharmaceuticals and as molecular reagents
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 42 BP; 15 A; 10 C; 11 G; 6 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Fry KE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human Hl histone gene FNC16, target region.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Cantor CR, Edwards CA,
                                                                                                                                                                        Example 1; Page 90; 92pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GRNE-) GENELABS TECHNOLOGIES INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        93WO-US12388.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   92US-0996783.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAQ69406 standard; DNA; 46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   27-FEB-1995 (first entry)
                    WPI; 2002-171810/22.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 1994-234711/28.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           07-JUL-1994.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        10-DEC-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   23-DEC-1992;
17-SEP-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO9414980-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Andrews BM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic.
                                                                                                                                  interest
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAQ69406;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Best Loca
Watches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 9
ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
```

```
Libraries of synthetic or biological cpds. for their ability
to bind box test sequences. The assay is versatile in that any
to bind box test sequences. The assay is versatile in that any
number of test sequences can be tested by placing the test sequence
adjacent to a defined protein-binding screening sequence.
Binding
of moles to these test sequences changes the binding characteristics
of fine protein mol. to its cognate binding sequence. When such a mol.
to fine protein mol. to its cognate binding sequence. When such a mol.
to bluds the test sequence, the equilibrium of the Dunsprotein complexes
to disturbed, generating changes in the concentration of free DNA probe.
The application of this method is to eucaryotic general transcription
factors (e.g. FIID), where the target region is typically selected
from DNA sequences adjacent to the binding site for the eucaryotic
transcription factor. Numerous exemplary test sequences are given:
the sequences in And69531-311 and And69830 correspond to promoter
the sequences in And69313-311 and And69830 correspond to promoter
the test sequences may also be randomly generated. DNA:protein
the raction may be used for screening purposes, e.g. the Harpes Simplax
And69881 and And69831-32, And69885 and
And69881-52, And69865 and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Duplex DNA; target region; binding characteristic; DNA binding protein; TFIID; transcription factor; binding site; inhibition; enhance; cancer; inherited genetic disorder; alpha-D-galactosidase A; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Altering binding characteristics of DNA binding proteins to duplex DNA - by attaching specific small cpd. to target region close to the protein's binding site, useful in treatment of viral disease, cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 1.24; Score 21.4; DB 15; Length 46; Best Local Similarity 71.84; Pred. No. 5.8e+04; Matches 28; Conservative 0; Mismatches 11; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Turin LM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human Hl histone gene FNC16 gene TFIID binding site.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1641 GCGCTGGAGGGATGCCACACCCTCACAGGGCAGCCCC 1679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2 GCGGTGGATTGGACGCTCCACCAATCACAGGGCAGGGCC 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 46 BP; 9 A; 14 C; 16 G; 7 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Fry KE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Cantor CR, Edwards CA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (GENE-) GENELABS TECHNOLOGIES INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       93US-0171389.
91US-0723618.
92US-0996783.
93US-0123936.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           91US-0723618.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAT63868 standard; DNA; 46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   14-NAR-1997 (first entry)
```

```
test sequences that are used in the method of the invention of determining the DNA sequence preference of a DNA-binding molecule. The method comprises: (i) adding a test molecule and a DNA-binding molecule. The method comprises: (i) adding a test molecule and a DNA-binding protein to comprise a mixture of duplex DNA test oligonucleotides, each of the test oligonucleotides having a test sequence adjacent to a screening sequence. Use the sequence adjacent to a screening sequence, where the screening sequence binds to the DNA-binding protein with a complex DNA tast oligonucleotides and where the mixture of duplex DNA test oligonucleotides in complex DNA test oligonucleotides and the DNA-binding protein complex and where DNA test oligonucleotides and the DNA-binding protein complex and where DNA test oligonucleotides and the bundling of the test molecule to test oligonucleotides in the duplex DNA; (iii) includes bound test oligonucleotides; (v) repeating steps (v) amplifying the unbound test oligonucleotides; (v) repeating the signated test oligonucleotides. Test sequences of (vi) sequencing the isolated test oligonucleotides. Test sequences and test sequences and test sequences AXXI7801 and AXXI781 and AXXI7801 and AXXI781 and AXXI781 and AXXI781 and and test targets for human complex of viral genes.
                              Sequences AAX17001 to AAX17600 represent specifically claimed target
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    / Match 1.2%; Score 21.4; DB 20; Length 46; Local Similarity 71.8%; Pred. No. 5.8e+04; les 28; Conservative 0; Mismatches 11; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 46 BP; 9 A; 14 C; 16 G; 7 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Edwards CA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  07-JUN-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABK82647;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Best Loca
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 12
         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  q
                            The sequences given in AAT63713-4312 represent duplex DNA's which act as target regions in the method of the invention. The method for as target regions in the method of the invention. The method for altering the binding characteristics of a DNA-binding protein to duplex DNA with a small molecule which binds sequence-specifically to a target region, where, when the small molecule is bound to the target region, where, when the small concerning the duplex DNA with a small molecule which the molecule is added at a concentration effective to alter the contains of the DNA binding protein, pref. TPID, to its binding site on the duplex DNA. The binding protein, pref. TPID, to its binding site on the duplex DNA. The binding protein protein to its binding site. The compounds isolated using this method are potentially useful as therapeutic agents for treatment of any disease which involves a specific DNA sequence, e.g. cancer, or inherited genetic disorders etc. The method is suitable for screening large biological or chemical confinitions of these duplex DNA's allows a single DNA:protein interaction to be used for screening sequence specific, or preferential, DNA binding cc.

The design of these duplex DNA's allows a single DNA:protein interaction or the recognise almost any possible sequence (see also ANT49339-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Determination of DNA sequence preference of a DNA-binding molecule based on inhibition of binding of protein to oligonucleotide sequence attached to test sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Test sequence; DNA-binding molecule; screening sequence; human; nucleic acid amplification; target; viral; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 46;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Turin LM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1641 GCGCCTGGAGGGATGCCACACCCCTCACAGGGCAGCCCC 1679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Match 1.24; Score 21.4; DB 18; Local Similarity 71.84; Pred, No. 5.8e+04; es 28; Conservative 0; Mismatches 11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2 GCGGTGGATTGGACGCTCCACCAATCACAGGGCAGCGCC 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Test sequence from human Hl histone gene FNC16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 46 BP; 9 A; 14 C; 16 G; 7 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Cantor CR, Edwards CA, Fry KE,
Claim 6; Column 177-178; 264pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 3; Columns 179-180; 270pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (GENE-) GENELABS TECHNOLOGIES INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 93US-0171389.
91US-0723618.
92US-0996783.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        95US-047522B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   93US-0123936
95US-0475228
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAX17156 standard; DNA; 46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      06-MAY-1999 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NPI; 1999-152755/13.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       23-DEC-1992;
17-SEP-1993;
07-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US5869241-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   07-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20-DEC-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             09-FEB-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Andrews BM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAX17156;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAX17156
10 AAX1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Q
```

ö

Gaps

```
Decreasing transcriptional activity of genes for treating infections or cancer, by administration of an agent that binds to two non-overlapping regions of the gene
                                                                                                                                                                   DNA binding molecule screening; inhibition of transcription; infection; human immunodeficiency virus; HIV; parasite: cancer; cardiovascular; respiratoxy; gastrointestinal; endocrine; metabolic; rheumatic; immunological; haematological; neurological; psychiatric; dermatological; ophthalmological; musculo-skeletal; urogenital disorder; ss.
                                                                                                                                               DNA binding molecule screening method test sequence #156.
                                                                                                                                                                                                                                                                                                                                                                                                                                        Fry KE;
Turin LM,
                                                                                                                                                                                                                                                                                                                                                                                                                                      Cantor CR, Andrews BM,
                                                                                                                                                                                                                                                                                                                                                                                                                (GENE-) GENELABS TECHNOLOGIES INC.
                                                                                                                                                                                                                                                                                                                                                                              92US-0996783.
                                                                                                                                                                                                                                                                                                                       99US-0354947
                                                                                                                                                                                                                                                                                                                                             93US-0171389
                                                                                                                                                                                                                                                                                                                                                        95US-0482080.
                                                                             ABK82647 standard; DNA; 46
                                                                                                                        27-AUG-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2002-442819/47.
                                                                                                                                                                                                                                                                          US6384208-B1.
                                                                                                                                                                                                                                                                                                                                                                 27-JUN-1991;
23-DEC-1992;
17-SEP-1993;
                                                                                                                                                                                                                                                                                                                      15-JUL-1999;
                                                                                                                                                                                                                                                                                               07-MAY-2002.
                                                                                                                                                                                                                                                                                                                                            20-DEC-1993;
```

```
Sequence 46 BP; 7 A; 13 C; 18 G; 6 T; 2 other;
           8*3555555555
                                                                                                                                                                                                                                                                                                                     õ
                                                                                                                                                                                                                                                                                                                                                    윱
                                          The invention relates to a method of decreaing transcriptional activity contacting (TI) with a binding agent comprising contacting (TI) with a binding agent comprising contacting (TI) with a binding agent comprising to contacting (TI) with a binding agent comprising to the small duplex binding molecule that binds to a non-overlapping region of target contacting molecule that binds to a non-overlapping region of target contacting molecule that binds to a non-overlapping region of target contacting molecule that binds to a non-overlapping region of target contacting molecule that binds to a non-overlapping region of target contacting function of a non-overlapping region of target contacting mumnodeficiency virus, bacteria, fungi, protozon and paraeltes), cancer, cardiovascular, respiratory, gastrointestinal, and paraeltes both that candoring molecule. The method provides sequence-specific inhibition of transcription of pathological, musculo-skeletal, genetic or urogenintal disorders. The method provides sequence-specific inhibition of transcription of pathological genes transcription factor, and can be applied to regulated by the same ABK81492-ABK81155 represent DNA binding molecule test sequences used in the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NNA sequences AAH62100 - AAH62688 represent segments of human genes which
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New nucleic acid segments of the human genome, particularly from genes including polymorphic sites, for phenotype correlation, forensics, paternity testing, medicine and genetic analysis
                                                                                                                                                                                                                                                                                                                                                                                                                                       Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Single nucleotide polymorphism; SNP; human; cancer; inflammation; heart disease; paternity testing; forensic science; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Location/Qualifiers
replace(11,G)
/*teg= a
/standard_name- 'single nucleotide polymorphism'
                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                       Hatch 1.2%; Score 21.4; DB 24; Length 46; Local Similarity 71.8%; Pred. No. 5.8e+04; Hatches 11; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PCTAIRE-1 polymorphism containing DNA fragment #96.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            1641 GCGGCTGGAGGGATGCCACACCCCTCACAGGGCAGCCCC 1679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2 GCGGTGGATTGGACGCTCCACCATCACAGGGCAGCGC 40
                                                                                                                                                                                                                                                                                                                                                      Sequence 46 BP; 9 A: 14 C; 16 G; 7 T; 0 other;
             Example 15; SEO ID No 156; 98pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (WHED ) WHITEHEAD INST BIOMEDICAL RES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Cargill M. Ireland JS, Lander ES;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 1; Page 37; 80pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    99US-0167334.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              17-NOV-2000; 2000MO-US31639.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAH62195 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  12-SEP-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2001-367705/38.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO200138576-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 24-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo saptens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Variation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAH62195;
                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 13
AAH62195
õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           a
```

```
ö
contain single nucleotide polymorphisms (SNPs). A method is included in the invention for analysing a nucleic acid sample, which consists of determining the base occupying an uncleic acid sample, which consists of the SNP containing sequences. The nucleotide sequences can be used in the diagnosis or monitoring of diseases, such as cancar, inflammation, heart diseases, of the carallovascular system, and infection by microorganisms. The oligonocleotides are also useful in the manufacture of a medicament for the treatment or prophylaxis of the diseases, and as a pharmaceutical. SNP containing oligonucleotides are useful in medicine and genetic analysis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to novel genes (AAH69727-AAH73383) associated with cervical cancer with cytostatic activity. The nucleic acids and encoded polypeptides are useful: to assess if a parient is afflicted with cervical cancer or has a pre-malignant condition; to monitor the progression of cervical cancer or a premalignant condition in a patient; and to select and/or assess the efficacy of a compound or therapy for useful for gene therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Cervical cancer; cytostatic: pre-malignant condition; gene therapy; ss.
                                                                                                                                                                                                                                                                                         Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New isolated nucleic acid for diagnosing and treating cervical cancer and for assessing and detecting compounds for treating the cancer
                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                        Length 21;
                                                                                                                                                                                                                                                1.2%; Score 21; DB 22; Length 21 100.0%; Pred. No. 5.4e+04; btlive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human cervical cancer marker nucleic acid 1933.
                                                                                                                                                                                                              Sequence 21 BP; 9 A; 4 C; 6 G; 2 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Berger A, 2hao
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 1; Page 415; 1051pp; English.
                                                                                                                                                                                                                                                                                                                     702 CAAGGAGATCAGACTGGAACA 722
                                                                                                                                                                                                                                                                                                                                                                                                                                                  86
                                                                                                                                                                                                                                                                                                                                         AAH70659 standard: cDNA; 46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              08-DEC-2000; 2000WO-US33312.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      21-DEC-1999; 99US-0171350.
14-NAR-2000; 2000US-0189315.
12-NAX-2000; 2000US-0203791.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    99US-0169681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          09-JUN-2000; 2000US-0210600
21-JUL-2000; 2000US-0220114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                Best Local Similarity 100. Matches 21; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Schlegel R, Deeds J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2001-375006/39.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO200142467-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                08-DEC-1999;
21-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               14-JUN-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    19-SEP-2001
                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAH70659;
```

Length 46;

DB 22;

1.2%; Score 21;

Query Match

ò

```
The present invention relates to oligonuclectides encoding polymorphic variants of proteins related to amylases, amyloid proteins, angiopoletin, apoptosis related proteins, cadherin, cyclin, polymerase, uncogenes, chistones, kinases, colony stimulating factors, complement related broteins, cytochromes, kinasis, cytokines, interferons, interleukins, coprotein coupled receptors and thioesterases. The present sequence is cone such oligonuclectide. The oligonucleotides and the peptides encoded diseases associated with inappropriate expression of the proteins listed above. Disorders that may be prevented, disquass and treatment of above. Disorders that may be prevented, disquased and/or treated include collisases (e.g. rheumatoid atthities, multiple sclerosis, diabetes, systemic lupus erythromatosus and Grave's disease) inflammation, cancer concurrent.
                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Immunosuppressive: immunostimulatory; antiinflammatory; cytostatic; neuroprotective; antimicrobial; gene therapy; vaccine; amylase; cancer; amyloid protein; angiopoietin; apoptools related protein; cadherin; complement; polymerase; oncogene; histone; kinase; colony stimulating factor; complement related protein; cytochrome; kinase; colony stimulating factor; interleukhi; G-protein coupled receptor; thioesterase; inflammation; nervous system disease; autoimmune disease; infection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases, oncogenes and histones, useful for diagnosing and treating, e.g. cancer, autolmmune diseases and infections -
                                                   Gaps
                                               ö
                                           Indels
Best Local Similarity 71.1%; Pred. No. 7.3e+04;
Matches 27; Conservative 0; Mismatches 11;
                                                                                                      550 AAGCCCCTCAGCCGCCGCCTCGTCTCAGCCTATC 587
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 50 BP; 1 A; 27 C; 11 G; 11 T; 0 other;
                                                                                                                                                 41 AAGCGTCTCTGCAGCCGCCCCCCGGGGGTGCTCCTATC 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 1; Page 3547; 4143pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human SNP oligonucleotide #7494.
                                                                                                                                                                                                                                                                                                                       AAL34286/c
ID AAL34286 standard; DNA; 50 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         28-DEC-1999; 99US-0173419.
27-DEC-2000; 2000US-0173419.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      28-DEC-2000; 2000WO-US35498.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                24-JAN-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Shimkets RA, Leach M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (CURA-) CURAGEN CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2001-465210/50.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                W0200147944-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   05-JUL-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                             AAL34286;
                                                                                                                                                                                                                                                                                   RESULT 15
```

. ö

Gaps

ö

Query Match 1.2%; Score 21; DB 22; Length 50; Best Local Similarity 66.7%; Pred. No. 7.6e+04; Matches 30; Conservative 0; Mismatches 15; Indels

```
208 GAGCAGATAGGCCTGGATGAGAGTGGTGGTGCTGCCGGCGCAGTGAC 252
            8 8
```

Search completed: March 3, 2003, 22:46:23 Job time : 431 secs

## GenCore version 5.1.4\_p5\_4578 Copyright (c) 1993 - 2003 Compugen Ltd.

	Copyright (c) 1993 - 2003 Compugen Ltd.
OM nucleic - nu	OM nucleic - nucleic search, using sw model
Run on:	March 3, 2003, 21:30:10; Search time 4788 Seconds (Without alignments) 10606.599 Million cell updates/sec
Title: Perfect score: Sequence:	US-10-017-621-3 1745 1 tggaagcagcgtaaaggatggttcacctgcccacttgtcc 1745
Scoring table:	IDENTIT_NUC Gapop 10.0 , Gapext 1.0
Searched:	2054640 segs, 14551402878 residues ,
Total numbèr of	Total number of hits satisfying chosen parameters: 841850
Minimum DB seg length: 0 Maximum DB seg length: 50	length: 0 length: 50
Post-processing	Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

						•																																	
 Gen Emb1: *	gb_ba:*	Jb_1n: *	*:mo_df	gp_ov:*	gb_pat:*	- : : : : : : : : : : : : : : : : : : :	o Dick	إزا			•:un q6	gp_vi:•	- 1	em_fun:•	em num:	em_In:*	em mu :	em on:	em_or:•	em_ov:•	em_pat:*	em_ph:•	em_p1:*	em_ro:*	em_sts:*	em_un:•	::	5	rg.	em_htg_other: *	뛽	em_htg_pln:•	em_htg_rod:*	em_htg_mam:*	em_htg_vrt:*	en_sy:"	em_htgo_hum:•	- 1	em_htgo_other:*
Ser	7 7	 M		Ä				ö	11:	12:			:51			 		:07	21:	22:	23:	74:	25:	26:	27:	28:	67	: 05	31:	32:	33:	34:	35:	36:	37:		36:	:04	41:

Pred. No. is the number of results predicted by chance to have a

REFERENCE AUTHORS TITLE JOURNAL

HSHCAK
HSBCAK
HSBCAK
HSBCAK
HSBCAK
HSBCAN
HSBCAN
HSBCAN
HSBCAS
HSBCAN
HS

RESULT 1
HSHCAK
LOCUS
LOCUS
LOCUS
ACCESSION
VERSION
VERSION
VERSION
REYWORDS
SOURCE
ORGANISH

ALIGNMENTS

X144440	Score Match Leng 23.8 1.4 22.2 1.3 22.2 1.3 22.2 1.3 22.2 1.3 22.2 1.3 21.4 1.2 21.4 1.2 21.4 1.2 20.6 1.2 20.6 1.2 20.6 1.2 20.6 1.2 20.7 1.2 20.7 1.2 20.2 1.2 20.2 1.2 20.2 1.2 20.2 1.2 20.2 1.2 20.2 1.2 20.2 1.2 20.2 1.2 20.3 1.2 20.4 1.2 20.5 1.2 20.7		15 15 16 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Description X76171 H.septens m A93721 Sequence 8 A93722 Sequence 9 184671 Sequence 5 AX159425 Sequence AX246673 Sequence AX248673 Sequence AX382049 Sequence AX38204 Sequence AX38204 Sequence AX38204 Sequence AX38204 Sequence AX082040 Sequence AX082040 Sequence
1 23.8 1.4 4.9 9 HSHCAK 22.2 1.3 50 6 A33721 5 22.8 1.3 50 6 A33721 5 22.8 1.3 50 6 A33721 5 22.8 1.3 50 6 A33721 6 22.2 1.3 50 6 A33721 6 22.2 1.3 50 6 A33721 6 22.2 1.3 50 6 A33721 6 22.4 1.3 50 6 A33721 6 A3382043 6 22.4 1.2 4.6 6 A820204 1 2 2.4 1.2 4.6 6 A820204 1 2 2.4 1.2 4.6 6 A820204 1 2 2 0.8 1.2 4.6 6 A820204 1 2 2 0.8 1.2 4.6 6 A820204 1 2 2 0.6 1.2 4.6 6 A820204 1 2 2 0.2 1.2 4.6 6 A820204 1 2 0.	No. Score Match Leng 1 23.8 1.4 1.2 1.3 1.4 1.2 1.3 1.4 1.2 1.3 1.4 1.2 1.3 1.4 1.2 1.3 1.4 1.2 1.3 1.4 1.2 1.3 1.4 1.2 1.3 1.4 1.2 1.3 1.4 1.2 1.4 1.2 1.3 1.4 1.2 1.4 1.2 1.4 1.2 1.4 1.2 1.3 1.4 1.2 1.4 1.2 1.4 1.2 1.4 1.2 1.4 1.2 1.4 1.2 1.4 1.2 1.4 1.2 1.4 1.2 1.4 1.2 1.4 1.2 1.4 1.2 1.4 1.2 1.4 1.2 1.4 1.2 1.4 1.2 1.4 1.2 1.4 1.2 1.4 1.2 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4		ID HSHCAK A93721 184671 184671 AXIS945 AXIS945 AXIS284 119058 119058 AXIS391 AXIS391 AXIS391 AXIS391 AXIS391 AXIS391 AXIS391 AXIS391	Petion H. Sequence 8 Sequence 9 Sequence 9 Sequence 9 Sequence 9 Sequence 14 S
1 23.8 1.4 49 9 HSHCAR 22.4 1.3 50 6 A33721 22.4 1.2 40 6 A33724 22.4 1.2 40 6 A32725 20.4 1.2 40 6 A3772 20.2 1.2 40 6 A3772 20	1 23.8 4 22.2 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		HSHCAK A93721 A93721 184571 184571 AX159452 AX152243 AX162243 AX103264 AX103264 190558 190558 AX166238 AX166238 AX166238 AX16509	H. saptens Sequence 8 Sequence 5 Sequence 5 152 Sequence 6 173 Sequence 6 18 Sequence 14 Sequence 14 Sequence 14 Sequence 14 Sequence 14 Sequence 14 Sequence 14
2 22.8 1.3 50 6 A93721 2 22.8 1.3 50 6 A93721 6 22.4 1.3 50 6 A93722 6 22.4 1.3 50 6 A7182243 6 22.4 1.3 50 6 A7182243 6 22.4 1.2 31 6 A7182243 6 22.4 1.2 31 6 A7182243 6 22.4 1.2 4.6 6 A7182243 1 2 2.4 1.2 4.6 6 A7182243 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9		A93721 A93721 184671 184671 AX159452 AX152453 AX182243 AX1820208 190558 190558 AX1603208 AX16039 AX16030 AX16030 AX16030 AX16009	N N N N N N N N N N N N N N N N N N N
22.4 1.3 50 6 A93722 22.4 1.3 50 6 A93722 22.1.4 1.2 42 6 AX182249 21.4 1.2 42 6 AX182249 21.4 1.2 42 6 AX182249 21.4 1.2 46 6 AX182249 21.4 1.2 46 6 AX182249 22. 2.3 11.2 46 6 AX182249 23. 20.6 1.2 46 6 AX1822079 24. 20.6 1.2 46 6 AX1822079 25. 20.7 1.2 46 6 AX1822079 26. 1.2 46 6 AX1822079 27. 20.6 1.2 46 6 AX1822079 28. 20.7 1.2 46 6 AX1822079 29. 20.7 1.2 46 6 AX1822079 20. 1.2 46 6 AX182338 20. 2 1.2 46 6 AX18338 20. 1.2 46 6 AX18338 20. 2 1.2 40 6 AX18338 20. 1.1 46 6 AX18338 20. 1.1 46 6 AX1834 20. 1.1 47 6 AX1834 20. 1.1 41 6 AX1834 20. 1.	22.4 6 2.2.4 10 2.1.4 11 2.1.4 1		184772 184771 AX159452 AX1246673 AX1242673 AX182244 AX182244 AX192364 AX19538 AX19538 AX186238 AX186238 AX186238 AX186238 AX13998 AX13998	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
2.2. 1.3 50 6 MX159452 2.1.4 1.2 4.6 6 MX159454 2.1.4 1.2 4.6 6 MX159454 2.1.4 1.2 4.6 6 MX180459 1.1.2 1.4 1.2 4.6 6 MX180495 1.1.3 1.2 4.6 6 MX180495 1.1.4 1.2 4.6 6 MX180534 1.1.5 20.6 1.2 4.6 6 MX180539 1.2 20.4 1.2 4.6 6 MX180539 2.2 20.4 1.2 4.6 6 MX180539 2.3 20.4 1.2 4.6 6 MX180539 2.4 20.2 1.2 4.6 6 MX180539 2.5 20.2 1.2 4.6 6 MX180539 2.6 1.2 4.6 6 MX180539 2.7 20.2 1.2 4.6 6 MX180539 2.8 20.2 1.2 4.6 6 MX180539 2.9 20.2 1.2 4.6 6 MX170513 2.0 1.1 4.6 6 MX180531 2.0 1.1 4.1 6 M	22. 23. 1.2 23. 24. 1.2 24. 25. 1.2 25. 26. 1.2 26. 27. 27. 1.2 27. 26. 1.2 28. 20. 2 29. 20. 2 20. 3 20. 3 20. 4 20. 5 20.	•	AX159452 AX159452 AX150243 AX160243 AX102244 AR012544 AR01258 AX10958 AX208015 AX106738 AX186738 AX18739 AX15009	25.52.52.52.52.52.52.52.52.52.52.52.52.5
2 2 1.4 1.2 3.0 6 AA158952 9 21.4 1.2 4.0 6 6 A820249 10 21.4 1.2 4.6 6 A820249 11 21.4 1.2 4.6 6 A820249 12 21.4 1.2 4.6 6 A820249 13 20.4 1.2 4.6 6 A820828 14 20.6 1.2 4.6 6 A820828 15 20.6 1.2 4.6 6 A820828 16 20.6 1.2 4.6 6 A820829 17 20.6 1.2 4.6 6 A820829 18 20.4 1.2 4.6 6 A820829 20 20.2 1.2 4.6 6 A820829 20 20.2 1.2 4.0 6 A820829 20 20.2 1.2 4.0 6 A820828 20 1.1 4.6 6 A820828 20 1.1 4.6 6 A820828 20 1.1 4.6 6 A820828 31 20 1.1 4.6 6 A820828 32 19.8 1.1 4.6 6 A820828 33 19.8 1.1 4.6 6 A820828 34 19.8 1.1 4.6 6 A820828 36 A820828 37 19.8 1.1 4.6 6 A820828 38 19.8 1.1 4.6 6 A820828 39 19.6 1.1 4.6 6 A820828 40 19.6 1.1 4.6 6 A820828 41 19.6 1.1 4.6 6 A820828 42 A820828 43 19.8 1.1 4.6 6 A820828 44 19.6 1.1 4.6 6 A820828 45 11.5 6 11.2 6 A820828 46 11.2 6 A820828 47 19.6 1.1 4.6 6 A820828 48 19.6 1.1 4.6 6 A820828 49 19.6 1.1 4.6 6 A820828 40 19.6 1.1 4.6 6 A820828 41 19.6 1.1 4.6 6 A820828 42 19.6 1.1 4.6 6 A820828 43 19.6 1.1 4.6 6 A820828 44 19.6 1.1 4.6 6 A820828 45 11.2 6 A820828 46 11.2 6 A820828 47 19.6 1.1 4.6 6 A820828 48 19.6 1.1 4.6 6 A820828 49 19.6 1.1 4.6 6 A820828 40 19.6 1.1 4.6 6 A820828 41 19.6 1.1 4.6 6 A820828 42 19.6 1.1 4.6 6 A820828 44 19.6 1.1 4.6 6 A820828 45 19.6 1.1 4.6 6 A820828 46 19.6 1.1 4.6 6 A820828 47 19.6 1.1 4.6 6 A820828 48 19.8 1.1 4.6 6 A820828 49 19.6 1.1 4.6 6 A820828 40 19.6 1.1 4.6 6 A820828 40 19.6 1.1 4.1 6 A820828 41 19.6 1.1 4.1 6 A820828 42 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		AX159452 AX159452 AX182243 AX182249 AX182040 AX203208 190958 190958 AX186238 AX186238 AX185399 AX153998	26.53.22
21.4 1.2 4.1 6 AX1842074 1 1 2 1.4 1.2 4.2 6 AX1842084 1 1 2 1.4 1.2 4.6 6 AX1842084 1 1 2 2.1 1.2 4.6 6 AX1842084 1 1 2 2.0 6 1.2 4.6 6 AX1842084 1 1 2 2.0 6 1.2 4.6 6 AX1842084 1 1 2 2.0 6 1.2 4.6 6 AX1842084 1 1 2 2.0 6 AX1842084 1 1 2 2.0 6 AX1842084 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	20 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		AXX486/3 AXX826/4 AXX82264 ARX03254 ARX09208 129588 AXX186238 AXX186238 AXX183998 AXX133998 AXX133998 AXX133998	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
21.4 1.2 4.5 bA338243 9 21.4 1.2 4.6 bA338243 11 21.4 1.2 4.6 6 170920 12 21.4 1.2 4.6 6 170920 13 20.8 1.2 4.6 6 700020 14 20.8 1.2 4.6 6 700020 15 20.6 1.2 4.6 6 700020 17 20.6 1.2 4.6 6 700020 18 20.6 1.2 4.6 6 700020 20 4 1.2 4.6 6 700020 21 20.4 1.2 4.6 6 700020 22 20.2 1.2 4.6 6 700020 23 20.2 1.2 4.6 6 700020 24 20.2 1.2 4.6 6 700020 25 20.2 1.2 4.6 6 700020 26 20.2 1.2 4.6 6 700020 27 20.2 1.2 4.6 6 700020 28 20.2 1.2 4.6 6 700020 29 20.2 1.2 4.6 6 700020 20 1.1 4.6 6 700020 31 20 1.1 4.6 6 700020 32 10.8 1.1 4.6 6 700020 33 19.8 1.1 4.6 6 700020 34 19.8 1.1 4.6 6 700020 36 115.6 1.1 4.6 6 700020 37 19.8 1.1 4.6 6 700020 38 19.8 1.1 4.6 6 700020 39 19.6 1.1 4.6 6 700020 41 19.6 1.1 4.5 6 700020	20 20 1.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2		AX182243 AX382049 AR032544 AR032544 I29208 AX20828 AX186238 AX186238 AX186238 AX18799 AX139998 AX13998	2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
21.4 1.2 46 6 AN3B2049 10 21.4 1.2 46 6 AR202049 11 21.4 1.2 46 6 190958 11 21.4 1.2 46 6 190958 11 21.4 1.2 46 6 190958 11 20.8 1.2 46 6 190958 11 20.6 1.2 46 6 AN2B2004 12 20.4 1.2 46 6 AN2B2004 12 20.2 1.2 46 6 AN2B2004 12 20.2 1.2 46 6 AN2B2004 13 20.2 1.2 40 6 AR200198 13 20.2 1.2 40 6 AR200198 13 20.1 1.1 46 6 AN2B20098 14 19.8 1.1 46 6 AN3B204 15 19.8 1.1 46 6 AN3B20098 16 19.6 1.1 36 6 AN3B20098 17 19.8 1.1 46 6 AN3B20098 18 19.8 1.1 46 6 AN3B20098 19 19 6 1.1 39 6 AN3B20098 19 19 6 1.1 39 6 AN3B20098 19 19 6 1.1 39 6 AN3B20098 10 10 6 1.1 46 6 AN3B20098 11 46 6 AN3B20098 11 46 6 AN3B20098 11 46 6 AN3B20098 12 19.6 1.1 45 6 AN3B20098 13 19.6 1.1 45 6 AN3B20098 14 19.6 1.1 45 6 AN3B200998	10 2 21.4 11 2 20.6 11 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		AR032644 AR032644 AR00208 I 192284 I 19058 AX166238 AX166238 AX155998 AR032074	0 4 9 0 0
10. 21.4 1.2 46 6 AR012018 1.2 21.4 1.2 46 6 1202018 1.2 21.4 1.2 46 6 1202018 1.2 21.4 1.2 46 6 1202018 1.2 20.8 1.2 20.8 1.2 46 6 AR186218 1.2 20.6 1.2 46 6 AR186219 1.2 20.6 1.2 46 6 AR186219 1.2 20.6 1.2 46 6 AR186219 1.2 20.4 1.2 46 6 AR1820207 1.2 20.4 1.2 46 6 AR1820207 1.2 20.4 1.2 46 6 AR01922 2.2 20.4 1.2 48 6 AR01922 2.2 20.2 1.2 48 6 AR202012 2.2 20.2 1.2 48 6 AR202012 2.2 20.2 1.2 49 6 AR202012 2.2	10. 11. 11. 11. 11. 11. 11. 11.		AR203208 129284 129286 AX248015 AX165238 AX115399 AX1133998 AR022074	208 Sequence 208 Sequence
21.4 1.2 46 6 120242 1	21 1.2 2.3 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		120208 120208 110058 AX146015 AX186238 AX186238 AX13998 AX133998 AX133998 AX133998	208 Sequence
21. 21. 4 1.2 46 6 190958 11 2 21. 4 1.2 46 6 190958 11 2 20. 8 11.2 46 6 190958 11 2 20. 8 11.2 46 6 6 A08791 11 2 20. 6 11.2 46 6 A08791 11 2 20. 6 11.2 46 6 A08791 12 20. 6 11.2 46 6 A08791 12 20. 4 11.2 46 6 A08791 12 20. 4 11.2 46 6 A08791 12 20. 4 11.2 46 6 A08791 12 20. 2 11.2 40 6 A08791 12 20. 2 11.2 40 6 A08791 12 20. 2 11.2 40 6 A08791 12 20 20. 2 11.1 40 6 A08791 12 20 20. 2 11.1 40 6 A08791 12 20 20. 2 11.1 40 6 A08791 12 40 A0	21 1.2 2.1 1.2 2.3 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2		190558 AX248015 AX248015 AX186238 AX153998 AR022074 F55009	
11. 21. 1.1. 2.1. 4.6 6 AX186738   12. 20.6 1.1. 2 46 6 AX186738   13. 20.6 1.1. 2 45 6 AX186739   13. 20.6 1.1. 2 45 6 AX187399   13. 20.4 1.1. 2 48 6 AX187399   22. 20.4 1.1. 2 48 6 AX18737   23. 20.4 1.1. 2 48 6 AX18737   24. 20.2 1.1. 2 48 6 AX1878   25. 20.2 1.1. 2 49 6 AX1878   26. 20.2 1.2 40 6 AX1878   27. 20.2 1.2 40 6 AX1878   28. 20.2 1.2 49 6 AX1878   29. 20. 1.1 48 6 AX1878   20. 1.1 46 6 AX187   20. 1.1 44 6 AX187   20. 1.1 46 6 AX187   20. 1.1 46 6 AX187   20. 1.1 46 6 AX187   20. 1.1 45 6 AX18   20. 1.1 45	11		AX248015 AX16238 AX16238 AX6731 AX672074 AR022074	מאלפונים
14 20.8 1.2 46 6 AM186228 15 20.8 1.2 46 6 A98791 17 20.6 1.2 2 16 6 A98791 18 20.6 1.2 45 6 15509 19 20.6 1.2 45 6 15509 20 4 1.2 46 6 A801533 20 5.2 1.2 48 6 AR010533 20 20.2 1.2 48 6 AR03334 20 20.2 1.2 45 6 AR03334 20 20.2 1.2 45 6 AR03334 20 1.1 46 6 AR03334 31 20 1.1 44 6 A07324 32 19.8 1.1 46 6 AR03548 33 19.8 1.1 46 6 AR03548 34 19.8 1.1 46 6 AR03534 40 19.6 1.1 48 6 BR013118 36 112502 37 19.8 1.1 46 6 AR03534 40 19.6 1.1 46 6 AR03534 41 19.6 1.1 46 6 AR035334 42 19.6 1.1 46 6 AR035334 43 19.8 1.1 46 6 AR035333 44 19.6 1.1 46 6 AR035333 44 19.6 1.1 45 6 AR035333	15 20 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		AAX186238 AAX186238 AAX153998 AX153998 155009	Ď.,
15 20.8 1.2 46 6 ANIS3991 15 20.6 1.2 46 6 ANIS3991 15 20.6 1.2 45 6 ANIS3991 15 20.4 1.2 45 6 ANIS3991 20.2 1.2 40 ANIS3991 20.2 1.2 40 ANIS3991 20.2 ANIS3991	20 20 112 20 20 20 20 20 20 20 20 20 20 20 20 20		A98791 AXI53998 AR022074 I55009	sedneuc
16 20.6 1.2 45 6 NR153998 19 20.6 1.2 45 6 NR022074 19 20.6 1.2 45 6 1802074 21 20.4 1.2 46 6 NR021074 22 20.4 1.2 48 6 AR071013 23 20.4 1.2 48 6 AR071013 24 20.2 1.2 48 6 AR170513 25 20.2 1.2 40 6 180302 26 20.2 1.2 40 6 180302 27 20.2 1.2 40 6 AR071013 28 20.2 1.2 49 6 AR071013 29 20.2 1.2 49 6 AR071013 20 1.1 46 6 AR071013 31 20 1.1 44 6 AR071013 32 19.8 1.1 46 6 B12501 33 19.8 1.1 48 6 B0010109 34 19.8 1.1 48 6 B0010109 35 19.8 1.1 48 6 B0010119 36 19.8 1.1 48 6 B0010119 37 19.8 1.1 48 6 B0010119 38 19.8 1.1 48 6 B0010119 39 19.6 1.1 48 6 B0010119 30 19.6 1.1 45 6 AR07107 31 19.6 1.1 45 6 AR07107	16 18 19 20 20 20 20 20 20 20 20 20 20		AX153998 AR022074 155009	?
17 20.6 1.2 45 6 MR022074 18 20.6 1.2 45 6 155009 20 20.4 1.2 45 6 155009 21 20.4 1.2 48 6 AR019723 22 20.2 1.2 48 6 AR019723 24 20.2 1.2 40 6 188105 25 20.2 1.2 40 6 188105 26 20.2 1.2 40 6 188205 27 20.2 1.2 40 6 188205 28 20.2 1.2 40 6 AR0205 20 1.1 40 6 AR0325 31 20 1.1 44 6 A07325 32 20 1.1 44 6 10205 33 20 1.1 44 6 10205 34 20 1.1 46 6 A07325 35 19.8 1.1 46 6 A07325 36 19.8 1.1 46 6 A07325 37 19.8 1.1 46 6 A07325 38 19.8 1.1 46 6 A07325 39 19.6 1.1 46 6 A07325 40 19.6 1.1 46 6 A07325 41 19.6 1.1 46 6 A07325 42 19.8 1.1 46 6 A07325 43 19.8 1.1 46 6 A07325 44 19.8 1.1 46 6 A07325 45 19.6 1.1 46 6 A07325 46 19.6 1.1 46 6 A07325 47 19.8 1.1 46 6 A07325 48 19.6 1.1 46 6 A07325 49 19.6 1.1 45 6 A07325	20 20 4 11.2 20.6 11.2 20.6 11.2 20.6 11.2 20.4 11.2 20.4 11.2 20.4 11.2 20.4 11.2 20.2 20.2 11.2 20.2 20.2 11.2 20.2 20		AR022074 155009	acduence
18 20.6 1.2 45 6 155009 7 20.4 1.2 48 6 175009 7 20.4 1.2 48 6 175001 20.4 1.2 20.4 1.2 48 6 AR010553 20.4 1.2 40 6 AR010553 20.2 1.2 40 6 AR010553 20.2 1.2 40 6 AR01053 20.2 1.2 40 6 AR01053 20.2 1.2 40 6 AR01053 20.2 1.2 40 6 AR01059 20.2 1.1 41 6 BR00709 20.2 1.1 41 6 BR00709 20.2 1.1 41 6 AR01059 20.2 1.1 44 6 AR01059 20.2 1.1 48 6 BR001059 20.2 1.1 45 6 AR01059 20.2 1.1 45 6 AR0105	20 20 4 1.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2		155009	
19 20.6 1.2 45 6 192864 21 20.4 1.2 48 6 AR01972 22 20.4 1.2 48 6 AR01972 24 20.2 1.2 40 6 IRR00128 25 20.2 1.2 40 6 IRR00128 26 20.2 1.2 49 6 AR22589 27 20.2 1.2 49 6 AR22589 20 2.1 2 49 6 AR22589 20 1.1 49 6 AR22589 31 20 1.1 44 6 AR2250 32 20 1.1 44 6 AR2250 33 20 1.1 44 6 AR2250 34 20 1.1 44 6 AR2250 35 19.8 1.1 46 6 AR22584 36 19.8 1.1 46 6 AR22584 37 19.8 1.1 48 6 BR01218 38 19.8 1.1 48 6 BR01218 39 19.6 1.1 42 6 AR22584 40 19.6 1.1 45 6 AR22584 41 19.6 1.1 45 6 AR22584 42 19.6 1.1 45 6 AR22584 43 19.6 1.1 45 6 AR22584	20 20.4 11.2 2.0 2.4 11.2 2.0 2.4 11.2 2.0 2.4 11.2 2.0 2.2 2.0 2.2 2.0 2.0 2.0 2.0 2.0 2		10007	
20 20.4 1.2 48 6 AR079723 22 20.4 1.2 48 6 AR079723 22 20.2 1.2 48 6 AR08123 22 20.2 1.2 48 6 AR08123 22 20.2 1.2 48 6 AR08123 22 20.2 1.2 45 6 AR08318 22 20.2 1.2 45 6 AR08318 22 20.2 1.2 45 6 AR08318 22 20 1.1 46 6 AR0333 04 20 1.1 44 6 1025 23 20 1.1 44 6 1025 23 20 1.1 44 6 1025 23 20 1.1 44 6 1025 23 20 1.1 44 6 1025 23 20 1.1 44 6 1025 23 20 1.1 44 6 1025 23 20 1.1 44 6 1025 20 1.1 44 6 1025 23 20 1.1 44 6 1025 23 20 1.1 44 6 1025 23 20 1.1 44 6 1025 23 20 1.1 44 6 1025 23 20 1.1 44 6 1025 23 20 1.1 44 6 1025 23 20 1.1 44 6 1025 20 20 1.1 44 6 1025 20 20 20 20 20 20 20 20 20 20 20 20 20	20 20.4 11.2 23 20.4 11.2 23 20.4 11.2 23 20.4 11.2 25 20.2 11.2 26 20.2 11.2 26 20.2 11.2 20.2 11.2 20.2 11.2 20.2 11.2 20.2 11.2 20.2 11.2 20.2 11.2 20.2 11.2 20.2 11.2 20.2 20			٠.
21 20.4 1.2 48 6 AR081253 22 20.4 1.2 40 6 AR081253 24 20.2 1.2 40 6 AR0801253 25 20.2 1.2 40 6 AR082569 26 20.2 1.2 40 6 AR082569 27 20.2 1.2 40 6 AR082569 28 20.2 1.2 40 6 AR082569 29 20 1.1 40 6 AR083404 31 20 1.1 41 6 BR007091 31 20 1.1 44 6 AR08548 32 19.8 1.1 46 6 AR08548 33 19.8 1.1 46 6 AR085648 34 19.8 1.1 48 6 BR01859 35 19.8 1.1 48 6 BR01859 36 19.6 1.1 39 6 AR085696 37 19.8 1.1 48 6 BR01859 38 19.6 1.1 48 6 BR01859 39 19.6 1.1 48 6 AR085696 30 19.6 1.1 45 6 AR08599 31 19.6 1.1 45 6 AR08599	21 22 22 23 20.4 11.2 24 20.2 25 20.2 27 20.2 20.2 20.2 20.2 20.2 20.2 2		372	AR079723 Seguence
22 20.4 1.2 48 6 AR170513 24 20.2 1.2 40 6 16803012 25 20.2 1.2 40 6 16803012 26 20.2 1.2 49 6 AR252580 27 20.2 1.2 49 6 AR253804 29 20.2 1.2 49 9 582032 20 1.1 96 6 AR233404 31 20 1.1 44 6 AR233404 32 20 1.1 44 6 BR07098 33 20 1.1 44 6 AR2503 34 20 1.1 44 6 AR2503 35 19 8 1.1 46 6 AR25034 36 19.8 1.1 48 6 BR070534 37 19.8 1.1 48 6 BR070534 38 19.8 1.1 48 6 BR070534 39 19.6 1.1 48 6 BR070534 40 19.6 1.1 45 6 AR153234 41 19.6 1.1 45 6 AR153237 42 19.6 1.1 45 6 AR153234	22 20.4 1.2 24 20.2 1.2 25 20.2 1.2 25 20.2 1.2 27 20.2 1.2 28 20.2 1.2 28 20.2 1.2 20 2.0 1.2 20 2.0 1.1 20 20 2.0 1.1 20 2.0 1.2 20 2.0 1.1 2		125	
23 20.2 1.2 40 6 AR20128 25 20.2 1.2 45 6 AR2028 26 20.2 1.2 45 6 AR2028 27 20.2 1.2 49 6 AR2038 28 20.2 1.2 49 9 6 AR2038 29 20 1.1 49 6 AR2034 31 20 1.1 44 6 AR2034 32 20 1.1 44 6 AR2038 33 20 1.1 44 6 AR2038 34 20 1.1 44 6 AR2038 35 19.8 1.1 46 6 AR0038 36 19.8 1.1 46 6 AR0038 37 19.8 1.1 46 6 AR0038 38 19.8 1.1 48 6 AR0038 39 19.6 1.1 48 6 AR0038 31 19.6 1.1 45 6 AR0038 31 19.6 19.7 20 AR0038 31 19.7 20 AR0038 31 19.7 20 AR0038 31 19.8 19.8 19.8 19.8 19.8 19.8 19.8 19.	23 20.2 1.2 25 20.2 1.2 26 20.2 1.2 26 20.2 1.2 26 20.2 1.2 20.2 1.2 20.2 1.2 20.2 1.2 20.2 1.1 20.2 20.2		AR170613	AR170613 Sequence
24 20.2 1.2 45 6 K682559 25 20.2 1.2 45 6 K682559 27 20.2 1.2 45 6 K682559 28 20.2 1.2 45 6 K6823318 29 20 1.1 56 6 K682334 31 20 1.1 44 6 K67324 32 20 1.1 44 6 K673259 33 20 1.1 44 6 K673259 34 20 1.1 44 6 K673259 35 19.8 1.1 46 6 K673254 36 19.8 1.1 46 6 K673254 37 19.8 1.1 48 6 K673254 38 19.8 1.1 48 6 K673254 39 19.8 1.1 48 6 K673254 40 19.6 1.1 48 6 K673254 41 19.6 1.1 48 6 K673233 41 19.6 1.1 48 6 K673233 42 19.6 1.1 45 6 K752323	24 20.2 1.2 26 20.2 1.2 27 20.2 1.2 28 20.2 1.2 29 20.1 1.2 20 1.1		AR200128	
25 20.2 1.2 49 6 ANZESES 26 20.2 1.2 49 6 ANZESES 27 20.2 1.2 49 6 ANZESES 28 20.2 1.2 50 6 ANZESES 20 1.1 36 6 ANZESES 31 20 1.1 44 6 ANZES 32 20 1.1 44 6 ANZES 34 20 1.1 46 6 ESZOII 35 19 8 1.1 46 6 ANZESES 36 19.8 1.1 48 6 BNDESES 37 19.8 1.1 48 6 BNDESES 38 19.8 1.1 48 6 BNDESES 40 19.6 1.1 42 6 ANZESES 41 19.6 1.1 42 6 ANZESES 42 19.6 1.1 45 6 ANZESES 43 19.6 1.1 45 6 ANZESES 44 19.6 1.1 45 6 ANZESES 45 19.6 1.1 45 6 ANZESES 46 19.6 1.1 45 6 ANZESES 47 19.6 1.1 45 6 ANZESES 48 19.6 1.1 45 6 ANZESES 49 19.6 1.1 45 6 ANZESES 40 19.6 1.1 45 6 ANZESES	25 20.2 1.2 28 20.2 1.2 29 20 2.0 1.1 2 30 2.0 1.1 2 30 2.0 1.1 30 30 30 30 30 30 30 30 30 30 30 30 30		168030	
26 20.2 1.2 49 6 ARG83B18 20.2 1.2 49 6 ARG83B18 20.2 1.2 49 6 ARZ33404 20.2 1.1 36 6 ARZ33404 20.2 1.1 44 6 ARZ325 20.2 1.1 44 6 ARZ322 20.2 1.1 44 6	27 20.2 1.2 28 20.2 1.2 29 20 1.1		25	
20.2 1.2 50 9 882032 20 1.1 56 6 707324 31 20 1.1 56 6 707324 32 20 1.1 44 6 707325 33 20 1.1 44 6 707325 34 20 1.1 44 6 707325 35 19.8 1.1 46 6 8236348 37 19.8 1.1 46 6 8001318 38 19.8 1.1 46 6 8001318 39 19.8 1.1 48 6 8001318 40 19.6 1.1 48 6 8001318 41 19.6 1.1 42 6 707323 42 19.6 1.1 42 6 707323 43 19.6 1.1 45 6 707323	26 20.2 1.2 29 20 1.1 30 20 1.1		♬.	Seguenc
28 20.2 1.2 50 6 AX23304 30 20 1.1 36 6 112501 31 20 1.1 44 6 A0070798 32 20 1.1 44 6 A0070798 33 20 1.1 44 6 A0070798 34 20 1.1 46 6 112502 35 19.8 1.1 46 6 52011 36 19.8 1.1 46 6 AX03634 37 19.8 1.1 48 6 B001218 38 19.8 1.1 48 6 B001218 39 19.6 1.1 48 6 AX45234 40 19.6 1.1 42 6 AX45234 41 19.6 1.1 45 6 AX5234 42 19.6 1.1 45 6 AX5234 43 19.6 1.1 45 6 AX7204	29 20 1.1		٠.	H
29 20 1.1 36 0 102501 31 20 1.1 41 6 BD007098 32 20 1.1 44 6 102502 34 20 1.1 44 6 102502 35 19.8 1.1 46 6 AX035548 37 19.8 1.1 46 6 AX035548 39 19.8 1.1 46 6 AX035548 31 19.8 1.1 46 6 AX035548 31 19.8 1.1 48 6 BD012118 32 19.6 1.1 48 6 BD012118 34 19.6 1.1 42 6 AX53523 40 19.6 1.1 42 6 AX532323 41 19.6 1.1 45 6 177201 42 19.6 1.1 45 6 177201	20 1.1		340	AX233404 Sequence
20 20 1.1 41 6 10207098 32 20 1.1 44 6 507325 34 20 1.1 44 6 10207 35 19.8 1.1 46 6 8X036348 37 19.8 1.1 46 6 8X036350 37 19.8 1.1 46 6 8X036350 38 19.8 1.1 48 6 8X036350 39 19.6 1.1 48 6 8X036350 40 19.6 1.1 42 6 8X153234 40 19.6 1.1 42 6 8X153234 41 19.6 1.1 45 6 117261 43 19.6 1.1 45 6 117261	-		~ 4	ynthetic
20 1.1 44 6 AD017098 33 20 1.1 44 6 AD017098 34 20 1.1 44 6 AD01802 35 19.8 1.1 46 6 AX03634 36 19.8 1.1 46 6 AX03634 37 19.8 1.1 46 6 BD01218 39 19.6 1.1 48 23 BD01802 40 19.6 1.1 42 6 AR153233 41 19.6 1.1 45 6 AT15323 42 19.6 1.1 45 6 AT15323	1.		3	
20 1.1 44 6 102525 34 20 1.1 44 6 12502 35 19.8 1.1 46 6 AX036548 37 19.8 1.1 46 6 AX036548 39 19.8 1.1 48 6 BD012118 39 19.6 1.1 48 6 BD012128 40 19.6 1.1 42 6 AR153233 41 19.6 1.1 42 6 AR153233 42 19.6 1.1 45 6 17720 43 19.6 1.1 45 6 17720	20 1.1		BD007098	8
25 20 1.1 46 6 172502 35 19 8 1.1 46 6 AX036348 37 19.8 1.1 46 6 AX03638 38 19.8 1.1 48 6 BX03638 39 19.8 1.1 48 6 BX03638 40 19.6 1.1 42 6 AX45234 40 19.6 1.1 42 6 AX45234 41 19.6 1.1 42 6 AX45234 42 19.6 1.1 45 6 17750 43 19.6 1.1 45 6 17720	17 07 77		A07325	
34 9.4 1.1 46 6 E52018 36 19.8 1.1 46 6 AX036548 37 19.8 1.1 46 6 BD012118 39 19.6 1.1 48 5 BD00459 39 19.6 1.1 39 6 AX452242 40 19.6 1.1 45 6 AX15323 41 19.6 1.1 45 6 AX15323 42 19.6 1.1 45 6 AX15323 43 19.6 1.1 45 6 AX15323	33 20 1.1		112502	I12502 Seguence:19
155 19.8 1.1 46 6 AX036348 37 19.8 1.1 46 6 B0012118 38 19.8 1.1 48 6 B0012118 39 19.6 1.1 48 6 B0012118 40 19.6 1.1 42 6 AR153233 41 19.6 1.1 45 6 11750 43 19.6 1.1 45 6 17720 43 19.6 1.1 50 6 AR032370	20 1.1		E52011	u
36 19.8 1.1 46 6 AX035550 38 19.8 1.1 48 23 BD004518 39 19.6 1.1 39 6 AX452342 40 19.6 1.1 42 6 AR15333 42 19.6 1.1 45 6 I17261 42 19.6 1.1 45 6 I17261 43 19.6 1.1 50 6 AR032970	19.8		AX036348	AX036348 Sequence
3/ 19.8 1.1 48 5 BD012118 39 19.6 1.1 48 5 AX452345 40 19.6 1.1 42 6 AX452333 41 19.6 1.1 45 6 INT5233 42 19.6 1.1 45 6 INT561 43 19.6 1.1 45 6 INT561 43 19.6 1.1 50 6 AR032970	. 36 19.8 1.1		AX036350	
38 19.8 1.1 48 23 BD0459 40 19.6 1.1 42 6 ARIS3233 41 19.6 1.1 45 6 11751 42 19.6 1.1 45 6 117261 43 19.6 1.1 50 6 ARO32970	3/ 19.8 1.1		8	18 v
19. 17.0 1.1 49 6 AX46234 41 19.6 1.1 42 6 AR15323 42 19.6 1.1 45 6 147720 43 19.6 1.1 50 6 AR03297	1.1 19.8		459	595
40 19.6 1.1 42 6 ARISSZS 42 19.6 1.1 45 6 ITZ61 43 19.6 1.1 45 6 AROSZSZ 43 19.6 1.1 50 6 AROSZSZ	17. 0.01		_	52342
42 19.6 1.1 45 6 14720 43 19.6 1.1 50 6 AR03297 43 19.6 1.1 50 6 AR03297	11 19.6 1.1		~	33 Sequenc
19.6 1.1 65 6 147720	17 0.61 14		11/261	17261 Sequence
12.0 A.1 50 6 AKU3.297	19.6		2	47720 Seq
	1.1 0.61		5 6	R032970 S
15.0	13.0		9	AR209634 Sequence

us-10-017-621-3.lim50.rge

```
PAT 22-JUN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PAT 04-APR-1998
                                                                                 PAT 22-JAN-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              human.
Homo sapiens
Eukaryota; Metazoa; Chordata; Cranlata; Vertebrata; Euteleostomi;
                                                                                                                                                                                                                           Rose-John, S.
CONJUGATE FOR MODIFYING INTERACTIONS BETWEEN PROTEINS
PATENT: WO 9732891-A 9 12-SEP-1997;
ANGEWANNT GENTECHNOLOGIE SYST (DE); ROSE JOHN STEFAN (DE)
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Avraham, H. Karsenty. and Godowski, P.J.
Avraham, H. Karsenty. and Godowski, P.J.
Nethods and Kits using macrophage stimulating protein
Patent: US 5696086.A 5 09-DEC-1997;
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 47;
                                                                                                                                                                                                                                                                                                                                                                                                 Length 50;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                958 CGGCAGAAGGTGCTACACCGAGACCTCAAGCCCCAGAACCTGCTCATC 1005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1.3%; Score 22.2; DB 6; Length 4 69.8%; Pred. No. 1.8e+06; Live 0; Mismatches 13; Indels
     50 CAGAACCTCCACCTCCAGAACCTCCACCTCCAGAACCTCCACCTCCTCGA 1
                                                                                 linear
                                                                                                                                                                                                                                                                                                                                                                                                                                 16; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2 CGACAGAACCTCCACCTCCAGACCTCCAGAACCTCCACCTC 49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Match 1.3%; Score 22.4; DB 6;
Local Similarity 66.7%; Pred. No. 1.6e+06;
les 32; Conservative 0; Mismatches 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DNA
DNA
                                                                                 DNA
                                                                                                                                                                                                                                                                                                                                                    7 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AX159452 50 bp DN
Sequence 2780 from Patent W00140521.
AX159452
AX159452.1 GI:14540783
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                11 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   47 bp
Sequence 5 from patent US 5696086.
184671
                                                                                                                                                                                                                                                                                                                   /organism="unidentified"
/db_xref="taxon:32644"
26 c 4 g
                                                                               A93722 50 bp
Sequence 9 from Patent W09732891.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /organism="unknown"
16 c 12 g
                                                                                                               A93722
A93722.1 GI:6741894
                                                                                                                                                                                                           1 (bases 1 to 50)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            30; Conservative
                                                                                                                                                            unidentified.
unidentified
unclassified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
Matches 30; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Unclassified.
                                                                                                                                                                                                                                                                                                                                                    13 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Unknown
                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                             DEFINITION
ACCESSION
VERSION
KETWORDS
SOURCE
                                                                                                                                                                                                                                                                                                         source
                                                                                                                                                                                                                                                                                                                                                    BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DEFINITION
ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM
                                                                                                                                                                             ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   JOURNAL
                                                                                                                                                                                                                              AUTHORS
                                                                                                                                                                                                                                                          JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 4
184671
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 5
AX159452
                                                                                                                                                                                                           REFERENCE
                                                                                                                                                                                                                                                                                         FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
Division of Orthopaedic Surgery, 4650 Sunset Boulevard, Los Angelas, CA, 90027, USA

2 (bases 1 to 49)

5 Wu.L. and Hall.F.L.

L. Umpublished

15 Wu.L., Yee.A., Liu.L., Carbonaro-Hall,D., Venkatesan,N., Tolo,V.T.

and Hall.F.L.

and Hall.F.L.

And Cocapene 9 (7), 2089-2096 (1994)

12 Succession 1 to 49

2 Occopene 9 (7), 2089-2096 (1994)

3 B 2088556
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PAT 22-JAN-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CONJUGATE FOR MODIFYING INTERACTIONS BETWEEN PROTEINS PACENT: NO 9732891-A 8 12-SEP-1997;
ANGEWANDIE GENTECHNOLOGIE SYST (DE); ROSE JOHN STEFAN (DE)
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            961 CAGNAGGTGCTACACCGAGACCTCAAGCCCCAGAACCTGCTCATCAACGA 1010
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 1.3%; Score 22.8; DB 6; Length 50; Best Local Similarity 66.0%; Pred. No. 1.3e+06; Matches 33; Conservative 0; Mismatches 17; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 49;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 1.4%; Score 23.8; DB 9; Length 4' Best Local Similarity 72.1%; Pred. No. 7.8e+05; Matches 31; Conservative 0; Mismatches 12; Indels
                                                                                                                                                                                                                         // Advance sapiens // Organism="Mono sapiens" // Organism="Mono sapiens" // Colone="Into-"EN-1 EW-109" // Cell_line="EN-1 EW-109" sarcoma cells" // Celsue_Lype="EW-109" sarcoma // Colone_lib="Into-"EW-100" // Colone_lib="Into-"Into-"
                                                                                                                                                                                                                                                                                                                                                                                                                   /note="catalytic subunit; subdomain VII"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /product="protein kinase"
/protein_id="CAA3766.1"
/db_xref="G1.939888"
/db_xref="SPTREMBL:Q14495"
/translation="RWSSRTGREWPGGIFW"
a 8 c. 12 9 15 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    13 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1...50
/organism-"unidentified"
/db_xref="taxon:32644"
a 4 c 26 g 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              50 bp
Sequence 8 from Patent W09732891.
A93721.1 GI:6741893
                                                                                                                                                                                                         Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                    /codon_start=2
                                                                                                                                                                                                                                                                                                                                                               /gene="HCAK"
<1. .>49
/gene="HCAK"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 (bases 1 to 50)
Rose-John, S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             unidentified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             unidentified
unclassified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                              source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DEFINITION
ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BASE COUNT
                                                                                                                                                                            Medline
Pubmed
Features
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BASE COUNT
ORIGIN
                                                                              REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                        gene
                                                  AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 2
A93721/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE
                                                                                                                                                            JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                    CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURES
                                                                                                                              TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOURCE
```

ð g

ò

Gaps

ö

Gaps

```
Patent: WO 0142441-A 53 14.JUN-2001;
International Centre for Genetic Engineering and Blotechnology (17)
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Transplastomic plants
Patent: WO 0206497-A 53 24-JAN-2002;
International Centre for Genetic Engineering and Biotechnology (IT)
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            unclassified.

1 (bases 1 to 46)
Edwards,C.A., Cantor,C.R., Andrews,B.W., Turin,L.M. and Fry,K.E. Method of determining DNA sequence preference of a DNA-binding molecule
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 1.2%; Score 21.4; DB 6; Length 42; Best Local Similarity 60.6%; Pred. No. 2.88+06; Matches 25; Conservative 0; Mismatches 6; Indels
                                                                                                                                                                                                                                                                                                                                   1.2%; Score 21.4; DB 6;
Similarity 80.6%; Pred. No. 2.8e+06;
15; Conservative 0; Mismatches 6;
                                                                                                                1, .42
/organism-"synthetic construct"
/db_xref="taxon:32630"
/note="primer"
10 6 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1.2%; Score 21.4; DB 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /organism-"synthetic construct"
/db_wref="texon:32630"
/note-"primer"
10 c 11 g 6 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 156 from patent US 5869241.
AR032544
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Patent: US 5869241-A 156 09-FEB-1999;
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    42 bp
Sequence 53 from Patent W00206497.
AX382049
                                                                                                                                                                                                                                                                                                                                                                                                                                                          270 ACGTGCTGCTGGGGAACTTCGTTCTGCA 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 270 ACGTGCTGCTGGGGAACTTCGTTCTGCA 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 35 ACGTACGGGTCCTGGCGACCTTCGATCTGCA S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        35 ACGTACGGGTCCTGGCGACCTTCGATCTGCA 5
                                                                                                                                                                                                                                           11 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /organism-"unknown"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Reddy, V.S. and Sadhu, L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AX382049.1 GI:19576871
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AR032544.1 GI:5948149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          synthetic construct
artificial sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     synthetic construct.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Unknown
                                                                                                                                                                                                                                                                                                                                             Local Sam
                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ouery Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 8
AX382049/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  source
                                                                                                                                                                                                                                       BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE
                     JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JOURNAL
FEATURES
                                                                                FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 9
AR032544
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PEATURES
                                                                                                                                                                                                                                                                   ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Locus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      linear PAT 28-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PAT 06-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryote, Metazoa, Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. [ to 31] [ to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /note-"2 of 2 allelic variants (2779 is other entry)" 2z c 13 g \theta t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                            1 (bases 1 to 50)
Shinkete, R.A. and Leach, M.
Nucleic acids containing single nucleotide polymorphisms and
methods of use thereof
Patent: WO 0140521-A 2780 07-JUN-2001;
Curagen Corporation (US)
Location/Qualiflers
                                                                                                                                                                                                                                                  1. .50
/organism**Homo sapiens*
/do_xref="taxon:9606.*
25. .26
/note="Nucleotide deleted between bases 25 and 26
Accession number c942460243*
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Romo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               synthetic construct.
synthetic construct
synthetic construct
synthetic synthetic
synthetic synthetic
synthetic synthetic
synthetic synthetic
synthetic synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synthetic
synth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 31,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 22; DB 6; Length 50;
Pred. No. 2e+06;
0; Mismatches 10; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 others
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1642 CGGCTGGAGGGATGCCACACCCCTCACAGGGCAGCCCC 1679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ouery Match 1.2%; Score 21.6; DB 6; Best Local Similarity 80.0%; Pred. No. 2.6e+06; Matches 24; Conservative 1; Mismatches 5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 CIGCTIGAGGCTGCCACACCCCTCTCGTGGGCCCCCC 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AX248673 31 bp DNA
Sequence 752 from Patent WO0166800.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1. .31
/organism="Homo sapiens"
/db_xref="taxon:9606"

d 11 c 7 g 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           42 bp
Sequence 53 from Patent W00142441.
AX182243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AX248673.1 GI:15863296
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AX182243.1 GI:15133518
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Natch
Best Local Similarity 73.7%;
Matches 28; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      G
                                                                                                                                                                                                                                                                                                                                             misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                        misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  human.
                                                                                                                                                                                                                                                         Source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      KEYWORDS
SOURCE
ORGANISM
                        REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DEFINITION
ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AX182243/c
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BASE COUNT
ORIGIN
                                                                                                                                                   JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 6
AX248673
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE
                                                                                                                                                                                                                  FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      윱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
```

PAT 18-MAR-2002

linear

DNA

Gaps

ö

Indels

Length 42;

PAT 29-SEP-1999

linear

Length 46;

ö

Gaps

Gaps

PAT 28-SEP-2001

DEFINITION ACCESSION VERSION KEYWORDS SOURCE ORGANISM

RESULT 10. AR209208 LOCUS

ð

g

source

REFERENCE AUTHORS TITLE

JOURNAL FEATURES BASE COUNT ORIGIN

```
Homo sapiens
Eukaryota; Netazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Eukaryota; Netazoa; Chordata; Catarrhini; Hominidae; Homo.
1 (bases 1 to 46)
5 Coblegol, R., Deeds, J., Berger, A. and Zhao, X.
Genes, compositions, kits, and methods for identification,
àssessment, prevention, and therapy of cervical cancer
Patent: WO 0144467-A 1933 14-JUN-2001;
Millennium Preddictive Medicine, Inc. (US)
Location/Qualifiers
1. .46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
Enkaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Enkaryota; Metazoa; Chordata; Catarrhini; Hominidae; Homo.
1 (bases I to 31)
Cargill,M.; Ireland,J.s. and Lander,E.S.
Human single nucleotide polymorphisms
Patent: WO 0166800-9 34 13-SEP-2001;
WHITEHEAD INSTITUTE FOR BIONEDICAL RESEARCH (US)
                                                   i (bases i to 46)
Edwards,C.A., Cantor,C.R., Andrews,B.M. and Turin,L.M.
Screening assay for the detection of DNA-binding molecules
Patent: US 726014-A 156 10-MAR-1998;
Location/Qualifiers
                                                                                                                                                                                                                                        Query Match
1.2%; Score 21.4; DB 6; Length 46;
Best Local Similarity 71.8%; Pred. No. 2.8e+06;
Matches 28; Conservative 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                        linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 others
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 31;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 1.2%; Score 21; DB 6; Length 31; Best Local Similarity 77.4%; Pred. No. 3.5e+06; Matches 24; Conservative 1; Mismatches 6; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         linear
                                                                                                                                                                                                                                                                                                                   OY 1641 GCGCTGGACGGATGCCACCCTCACAGGCCACCCC 1679

DD 2 GCGCTGGATTGGACGCTCCACCAATCACAGGCAGCGCC 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                        DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AX186238 46 bp DN
Sequence 1933 from Patent WOO142467.
AX186238.1 GI:15137666
                                                                                                                                                                                                                                                                                                                                                                                                                                               31 bp
Sequence 94 from Patent WO0166800.
AX248015
AX248015.1 GI:15862638
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /organism="Homo sapiens"
/db_xref="taxon:9606"
9 c 8 g 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        577 GTCAGCCTATCTGAGATTGGCTTTGGGAAAC 607
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /organism="unknown"
                    Unknown.
Unclassified
                                                                                                                                                                                      9 a
    Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     human.
                                                                                                                                                     source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DEFINITION
ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 14
AX186238/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LOCUS
DEFINITION
ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BASE COUNT
ORIGIN
                                                                                                                                                                                    BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORGANISM
                    ORGANISM
                                                                                           TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 13
AX248015
                                                                          AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            VERSION
KEYWORDS
SOURCE
                                                        REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURES
                                                                                                                                FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                    ö
                                                                                                                                                                                      PAT 20-JUN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PAT 06-FEB-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PAT 01-DEC-1998
                                                                                                                                                                                                                                                                                                            Unclassified.

In (bases 1 to 46)

Radvards,C.A., Cantor,C.R., Andrews,B.M., Turin,L.M. and Fry,K.E.

Sequence discreted DNA binding molecules compositions and methods

Patent: US 6384208-A 156 07-MAX-2002;

Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 (bases 1 to 46)
Edwards,C.A., Cantor,C.R., Andrews,B.M., Turin,L.M. and Fry,K.E.
Sequence-directed DNA-binding molecules compositions and methods
Patent: US 5578444-A 156 26-NOV-1996;
Location/Qualiflers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gapa
                    Gaps
                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 1.2%; Score 21.4; DB 6; Length 46; Best Local Similarity 71.8%; Pred. No. 2.8e+06; Matches 28; Conservative 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 1.2%; Score 21.4; DB 6; Length 46; Best Local Similarity 71.8%; Pred. No. 2.8e+06; Matches 28; Conservative 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       linear
                                                                                                                                                                                        linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       linear
                    11; Indels
                                                        1641 GCGCTGGAGGGATGCCACACCCCTCACAGGGCAGCCCC 1679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1641 GCGCCTGGAGGGATGCCACACCCCTCACAGGGCAGCCCC 1679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1641 GCGGCTGGAGGGATGCCACACCCCTCACAGGGCAGCCCC 1679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2 GCGGTGGATTGGACGCTCCACCAATCACAGGGCAGCGCC 40
                                                                          2 GCGCTGGATTGGACGCTCCACCAATCACAGGGCAGCGCC 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Best Local Similarity 71.8%; Pred. No. 2.8e+06; Natches 28; Conservative 0; Mismatches 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              46 bp DNA
Sequence 156 from patent US 5726014.
190958
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ۲
د
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             46 bp Dh
Sequence 156 from patent US 5578444.
129284.1 GI:1820075
                                                                                                                                                                                46 bp Di
Sequence 156 from patent US 6384208.
AR209208
AR209208.1 GI:21510563
                                                                                                                                                                                                                                                                                                                                                                                                                                                   /organism-"unknown"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /organism-"unknown"
9 a 14 c 16 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Unclassified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9
                                                                                                                                                                                                                                                                                    Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Unknown.
                                                                                                                                                                                                                                                                                                      Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Unknown.
```

DEFINITION ACCESSION VERSION KEYWORDS

RESULT 11 129284

ö

윱

ORGANISM

REFERENCE AUTHORS JOURNAL source

FEATURES TITLE

BASE COUNT

ö

Gaps

ö

PAT 06-AUG-2001

LOCUS DEFINITION ACCESSION VERSION KEYWORDS

۰

RESULT 12 190958

ò a

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PAT 26-JAN-2000
                                                                                                                                                                                                                                                                       0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ouery Match 1.2%; Score 20.8; DB 6; Length 46; Best Local Similarity 78.1%; Pred. No. 3.98+06; Matches 25; Conservative 0; Mismatches 7; Indels
                                                                                                                                                                              Query Natch 1.2%; Score 21; DB 6; Length 46; Best Local Similarity 71.1%; Pred. No. 3.5e+06; Matches 27; Conservative 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             unidentified.

LISM unidentified.

JANCE I (bases 1 to 46)

AURE METHOD FOR PRODUCING NUCLEIC ACID POLYMERS

AURINES HEGEMANN. PREM. (DE)

AURINES LOCATION/Qualifiers

SOURCE AUGUSTANT A
                                                                                                                                                                                                                                                                                                                            DNA
                                                                                     ب
ص
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A98791 46 bp
Sequence 24 from Patent WO9910358.
A98791 1 GI:6781812
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /organism="Homo sapiens"
/db_xref="taxon:9606"
7 a 13 c 18 g 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 15
A98791/c
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BASE COUNT
ORIGIN
                                                                         BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE
AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURES
                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                     윱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 윱
```

Search completed: March 4, 2003, 00:06:28 Job time : 4794 secs

2222	145	12 18 19 19	2222	222	27	30	33	36 33	ш ш ф ф ф ф ф ф В Ф О Н Ц Ш ф Ю
	ပပ	U U	U U		U		U U	1	υ
					-				
GenCore version 5.1.4_p5_4578 Copyright (c) 1993 - 2003 Compugen Ltd.	OM nucleic - nucleic search, using sw model	Run On: March 3, 2003, 19:29:35 ; Search time 427 Seconds (Without alignments) 9203.131 Million cell updates/sec	Title: US-10-017-621-3 Perfect score: 1745 Sequence: 1 togsaggaggatasaggata	able: IDENTITY_NUC Gapop 10.0 , Gapext 1.0	Searched: 2185239 seqs, 1125999159 residues	Total number of hits satisfying chosen parameters: 2166140	Minimum DB seq length: 0 Maximum DB seq length: 50	Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries	Database: N_Geneseq_101002:*  1: /SIDSZ/gcgdata/geneseq/geneseqn-embl/NA1980.DAT:*  2: /SIDSZ/gcgdata/geneseqforeseqn-embl/NA1981.DAT:*  3: /SIDSZ/gcgdata/geneseqqforeseqn-embl/NA1982.DAT:*  4: /SIDSZ/gcgdata/geneseq-geneseqn-embl/NA1983.DAT:*  5: /SIDSZ/gcgdata/geneseq-geneseqn-embl/NA1983.DAT:*  6: /SIDSZ/gcgdata/geneseq-geneseqn-embl/NA1985.DAT:*  7: /SIDSZ/gcgdata/geneseq-geneseqn-embl/NA1985.DAT:*  8: /SIDSZ/gcgdata/geneseq-geneseqn-embl/NA1985.DAT:*  9: /SIDSZ/gcgdata/geneseq-geneseqn-embl/NA1986.DAT:*  9: /SIDSZ/gcgdata/geneseq-geneseqn-embl/NA1986.DAT:*  9: /SIDSZ/gcgdata/geneseq-geneseqn-embl/NA1986.DAT:*

Pred. No. 1s the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

| SIDSZ/gogdata/geneseq/geneseqn-embl/kN1990.DAT;
| SIDSZ/gogdata/geneseq/geneseqn-embl/kN1990.DAT;
| SIDSZ/gogdata/geneseq/geneseqn-embl/kN1991.DAT;
| SIDSZ/gogdata/geneseq/geneseqn-embl/kN1991.DAT;
| SIDSZ/gogdata/geneseq-geneseqn-embl/kN1991.DAT;
| SIDSZ/gogdata/geneseq-geneseqn-embl/kN1995.DAT;
| SIDSZ/gogdata/geneseq-geneseqn-embl/kN1995.DAT;
| SIDSZ/gogdata/geneseq-geneseqn-embl/kN1996.DAT;
| SIDSZ/gogdata/geneseq-geneseqn-embl/kN1999.DAT;
| SIDSZ/gogdata/geneseq-geneseqn-embl/kN1999.DAT;
| SIDSZ/gogdata/geneseq-geneseqn-embl/kN1999.DAT;
| SIDSZ/gogdata/geneseq-geneseqn-embl/kN1999.DAT;
| SIDSZ/gogdata/geneseq-geneseqn-embl/kN2000.DAT;
| SIDSZ/gogdata/geneseq-geneseqn-embl/kN2001.DAT;

,,
ARIE
DMMA
v

	Description	Suggestion GNS deamH	Ruman Cdk5 related	Human Cdk5 related	Human stoole	Human silent SNP o	Buman stoole onele	DCR primer SP53 fo	1fnG coding region	Human H1 histone q
	DI OI	AAL34335	ABA04099	ABA04100	AAI30264	AAI75839	AA129606	AAH22523	AAD29563	AAQ69406
	58	22	24	24	77	22	22	22	24	15
	re Match Length DB ID	50	33	33	31	20	31	43	42	46
<b>3</b>	Match	1.4	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.2
	Score	24.8	22.4	22.4	22	22	21.4	21.4	21.4	21.4
	1 2	-	~	<b>C</b>	4	S	9	7	æ	σ
1,000	2	υ		U				U	ပ	

		91:	21.4	1.2	4 6	18	AAT63868	Human H1 histone 9
		11	21.4	 			AAA1/130 Abkg3647	rest sequence from
		11	21	1.2			AAH62195	PCTAIRE-1 polymore
		14	21	1.2			AAH70659	Human cervical can
	v	15	77	1.2			AAL34286	Ruman SNP oligonuc
		9 ;	8.02	7.			AAX22932	DE19736591 primer
		7 01	9.9	7.			AATU/598	AT-PCR primer/prob
		13	20.6	1.2			AAL27875	Ruman SNP olinonic
	v	20	20.4	1.2			AAI72077	Xcds1 degenerate p
		21	20.4	1.2			AAQ50230	HIV pol INS mutage
	ပ	77	20.2	7.7			AAV46356	PCR primer for ser
		2 45	7.0	7.			AAU/6190	Primer for amplify
		25	20.2	. 7			ABISA053	Human cutoking ton
		26	20.2	1.5			ABK48869	Human cycotine tec
-		27	20.3	1.2			ABK48870	Human proton-adeno
	v	28	20.3	1.2			AAD17287	Human prostate spe
		53	20.3	1.2			AAE31379	MUSIGHAEI Mouse Ig
		90	20.2	1.2			AAV59127	Reverse PCR primer
	υ	33	20.2	1.2			AAS43538	Corneodesmosin sin
		35	20				AAV37843	CD4+ human T-lymph
	ย	5,5	9 2	1.1			AAL43819	Human large protei
		9 4	9 6	7.			AA291309	IL-6R and IL-6 fus
		7 4	0 0				AA60/003	Human map-related
		3.5	200	1 -			AA122703	DINGSTO AND UPON
		38	19.8	1.1			AAC62589	Hammer Day of the Charles
		36	19.8	1.1			AAT76056	Ruman A2b adenosin
		40	19.8	1.1			AAX53859	Human adendary
		41	19.8	1.1			AAF19424	Human adenosine A2
		42	19.8	1.1			AAA33302	Low adenosine anti
		43	19.8	1.1			AAA03704	Human adenosine Al
	Ü	44	19.8				AAH74232	Nucleotide sequenc
		u U	0.61	1:1			AAI30029	Human single nucle
							ALIGNMENTS	
	RESULT	LT 1						
	WE3	32						
	֝֞֞֓֞֝֟֝֓֓֓֓֟֝֓֓֓֟֝֟֝֓֓֓֓֓֟֝֟֝֓֓֓֓֓֓֟֝֟֝֟֝֟֝	AALS		standard; DN	DNA;	SU BP		
	Ę Ų	AAL34	4335;					
	×							
	ΩŢ	24 - 34	-JAN-2002	(first e	entry)	_		
	×:	:						
	3 ;	HUMB	Human SNP OL	oligonucleotide	ot 1de	# 1	543.	
	< 3	Tmm		4.000		4		
	2 3	TIME	iosuppre	SULVE; III	in total	20.0	ulatory; antiinilam	matory; cytostatic;
	×	amyle	oid prot	ein: and	1000	etin	it, gene chetapy; vac	orotein: cadherin:
	KW	cycl	in; poly	merase; c	Soout	ene;	histone; kinase; co	plony stimulating factor:
	KH	Comp	lement r	elated pr	rotei		ytochrome, kinesin;	cytokine; interferon;
	K	inter	rleukin;	G-prote	In co	uple	d receptor; thloeste	erase; inflammation;
	3	mult	Ifactori	al diseas	3e; a	utol	mmune disease; infec	multifactorial disease; autoimmune disease; infection;
	2 >	MELA	ous syst	em diseas	e: : :			
	4 C	HOHO	Home santens					
	X							
	M	W020(	WO200147944-A2	A2.				
	×							
	2 3	D- c0	-JUL-2001.					
	4 4	28 - DE	-DEC-2000;	2000WO-US35498	15354	98.		
	×					,		
	P	28-DE	3-DEC-1999;	S066	-017341	13		
	¥ ¥			200002	1734	13.		
_	E &	(CURA-)		CURAGEN CORP.				
_	×	-		; ;				

```
Sequence 33 BP; 10 A; 11 C; 6 G; 6 T; 0 other;
      8888888888888
                                                                                                                                                                                                                                            ογ
                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                  The present invention relates to oligonucleotides encoding polymorphic variants of proteins related to amylases, amyloid proteins, angiopoietin, apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes, histones, kinases, colony stimulating factors, complement related proteins, cytothromes, kinesins, cytokines, interferons, interleukins, cyfoteins, cytothromes, kinesins, cytokines, interferons, interleukins, cyfoteins, cytothromes and thoesterases. The present sequence is one such oligonucleotides and the peptides encoded by them may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate expression of the proteins listed above. Disorders that may be prevented, diagnosed and/or treated include multifactorial diseases with a genetic component, such as autoimmune diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes, systemic lupus erythromatosus and Grave's disease), inflammation, cancer (e.g. cancers of the bladder, brain, breast, colon and kidney, nearnanicane) allekaenia), diseases of the nervous system and an infection of pathogenic craminants.
                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                 Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases, oncogenes and histones, useful for diagnosing and treating, e.g. cancer, autoimmune diseases and infections -
                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Medicinal compositions for the treatment of dementia and Alzheimer's disease, comprise compounds that suppress beta amyloid production
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; beta-amyloid; cyclin-dependent kinase inhibitor; nerve cell;
amyloid precursor protein; APP; Cdk5; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                   Length 50;
                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                               1619 CAGACCGAGGCCCCAGGAGGGAGGGGTGGGGATGCCACACC 1662
                                                                                                                                                                                                                                                                                                                                                                                                                              1.4%; Score 24.8; DB 22;
72.7%; Pred. No. 7.8e+03;
tive 0; Mismatches 12;
                                                                                                                                                                                                                                                                                                                                        Sequence 50 BP; 7 A; 13 C; 14 G; 16 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Hachlya S:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human Cdk5 related PCR primer SEQ ID NO:18.
                                                                                                  Claim 1; Page 3563; 4143pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Kawabata S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 6; Page 23; 62pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (YAMA ) YAMANOUCHI PHARM CO LTD. (SUZU/) SUZUKI T.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ВР
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     28-APR-2000; 2000JP-0131037.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              25-APR-2001; 2001WO-JP03555,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABA04099 standard; DNA; 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity 72.70
Matches 32, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Suzuki T, Watanabe T,
  Shimkets RA, Leach M;
                         WPI; 2001-465210/50.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2002-026209/03.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               W0200182967-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     08-NOV-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ABA04099;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 2
```

ò 윱 3

```
The present invention describes medicinal compositions (I) inhibiting beta-amyloid production comprising an active component a substance that inhibits the activity of cyclin-dependent kinase (CDK). Also described are: (1) a method for screening compounds for their ability to inhibit the production of beta-amyloid by contacting with beta-amyloid producing cells; and (2) screening kits. (I) have nootropic and neuroprotective activities. (I) suppress the phosphorylation of amyloid precursor protein (ARP) which is an essential step in the production of beta-amyloid. (I) can be used in the treatment and prevention of neurodegenerative diseases such as dementia and Alzheimer's disease. The present sequence represents invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present invention describes medicinal compositions (1) inhibiting beta-amyloid production comprising an active component a substance that inhibits the activity of cyclin-dependent kinase (CDK). Also described are: (1) a method for screening compounds for their ability to inhibit the production of beta-amyloid by contacting with beta-amyloid producing cells; and (2) screening kits. (1) have mootropic and meuroprotective activities. (1) suppress the phosphorylation of amyloid precursor protein (APP) which is an essential step in the production of beta-amyloid. (1) can be used in the treatment and prevention of neurodegenerative diseases such as dementia and Alzheimer's disease. The present sequence represents
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Medicinal compositions for the treatment of dementia and Alzheimer's disease, comprise compounds that suppress beta amyloid production
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; beta-amyloid; cyclin-dependent kinase inhibitor; nerve cell; anyloid precursor protein; APP; CdK5; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 33;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 22.4; DB 24
Pred. No. 2.8e+04;
0; Mismatches 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hachiya S;
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 33 BP; 6 A; 6 C; 11 G; 10 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human Cdk5 related PCR primer SEQ ID NO:19.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1018 GAGCTCAAGCTGGCTGACTTTGGCCTGGCCCG 1049
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2 GAGCTGAAATTGGCTAATTTTGGCCTGGCTCG 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Kawabata S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 6; Page 23; 62pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (YAMA ) YAMANOUCHI PHARM CO LID.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    / Match 1.3%;
Local Similarity 81.2%;
nes 26; Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       28-APR-2000; 2000JP-0131037.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  25-APR-2001; 2001WO-JP03555.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 3
ABA04100/c
ID ABA04100 standard; DNA; 33 [
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Medicinal compositions for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Suzuki T, Watanabe T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2002-026209/03.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (SUZU/) SUZUKI I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO200182967-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 21-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ABA04100;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Best Loca
Matches
```

(first entry)

윱 õ

```
Polymorphic nucleic acid sequences, useful in genetic testing and
                                                                                                                                                                     Human; single nucleotide polymorphism; SNP; genome; gene there
protein therapy; vaccine; probe; diagnostic assay; detection;
quantitation; restorative therapy; polymorphic; ds.
                                                                                                                                      Human silent SNP containing nucleic acid SEQ:2780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 1; Page 901; 2653pp; English.
                                AAI75839 standard; DNA; 50 BP
                                                                                                                                                                                                                                                                                                                                                                               30-NOV-1999; 99US-0168138.
29-NOV-2000; 2000US-0726173.
                                                                                                                                                                                                                                                                                                                                             30-NOV-2000; 2000WO-US32758
                                                                                                                                                                                                                                                                                                                                                                                                                                   (CURA-) CURAGEN CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2001-356160/37.
                                                                                                                                                                                                                                                                         WO200140521-A2.
                                                                                                                                                                                                                                          Homo sapiens.
                                                                                                                                                                                                                                                                                                            07-JUN-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Shimkets RA,
                                                                                                    09-NOV-2001
                                                                 AAI75839;
RESULT 5
                                                                   ò
                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention relates to the identification of nucleic acid molecules (AAI39513-AAI31314) from the human genome which include polymorphic sites which can predispose individuals to disease. Wardous genes from a number of individuals were resequenced and single nucleotide polymorphisms (SMPs) in these genes discovered. The method is useful for predicting the presence, absence or severity of a particular penetype or disorder (e.g. chabetes) associated with a particular genotype. The nucleic acids containing the polymorphic sites may be useful in forensics and paternity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Nucleic acid molecules from the human genome which include polymorphic sites, useful in methods for predicting the presence, absence or severity of a particular phenotype or disorder (a.g. diabetes) associated with a particular genotype -
                                                Caps
                                                                                                                                                                                                                                                                                                                                     Human; resequence; genotype; disease; forensic; paternity testing; single nucleotide polymorphism; SNP; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            /*tag= a
/standard_name= "single nucleotide polymorphism"
                                              ö
             Length 33;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         'Match 1.3%; Score 22; DB 22; Length 31;
Local Similarity 83.3%; Pred. No. 3.4e+04;
les 25; Conservative 0; Mismatches 5; Indels
                                            Indels
             DB 24;
                                              ;
       Query Match 1.3%; Score 22.4; DB 24 Best Local Similarity 81.2%; Pred. No. 2.89+04; Matches 26; Conservative 0; Mismatches 6
                                                                                                                                                                                                                                                                                                  Human single nucleotide polymorphism (SNP) 97.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 31 BP; 8 A; 11 C; 8 G; 4 T; 0 other;
                                                                       1018 GAGCTCAAGCTGGCTGACTTTGGCCTGGCCCG 1049
                                                                                              32 GAGCTGAATTGGCTAATTTTGGCCTGGCTCG 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (WHED ) WHITEHEAD INST BIOMEDICAL RES.
                                                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualiflers
replace(16,T)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Cargill M, Ireland JS, Lander ES;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 1; Page 75; 145pp; English.
                                                                                                                                                                                                  ם
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              07-MAR-2001; 2001WO-US07268.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               07-MAR-2000; 2000US-0187510.
22-MAY-2000; 2000US-0206129.
                                                                                                                                                                                          AAI30264 standard; DNA; 31
                                                                                                                                                                                                                                                                18-OCT-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2001-522952/57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO200166800-A2.
                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           13-SEP-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                           Variation
                                                                                                                                                                                                                                 AAI30264;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       testing.
```

```
ANTIJUGO to ANTIJUGO TEPERSONE ISOLATED HUMBAN POLYMOTPHIC POLYNUCIOCIDES SEQUENCES (I). Which contain single nuclectide polymorphisms (SNPS).

ANNIJIA to ANNIJIOS represent peptides related to human polymorphic polymorphic contents. The sequences. The sequences can be used in gene and protein collections and in vaccine production. (I) and the polymorphic and no vaccine production. (I) and the polymorphic polymorphic collections in the prevention, diagnosis and treatment of diseases associated with inappropriate expression of polymorphic polymorphic and collections in a patient's genome that affect the activity of collections in a patient's genome that affect the activity of polymorphic son production of polymorphic. Additionally, (I) and its complementary sequences may also be used as DNA probes in diagnostic complementary sequences may also be used as DNA probes in diagnostic in samples, and therefore which patients may be used as antigens in the production of antibodies specific for polymorphic polymorphic polymorphic polymorphic polymorphic production and activity.

The antibodies may also be used as diagnostic agents for detecting the presence of polymorphic polymorphic polymorphic production.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 50;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               / Match 1.3%; Score 22; DB 22; Length 50 Local Similarity 73.7%; Pred. No. 4.2e+04; nes 28; Conservative 0; Mismatches 10; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1642 CGCTGGAGGGATGCCACACCCCTCACAGGGCAGCCCC 1679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 50 BP; 7 A; 22 C; 13 G; 8 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAI29606 standard; DNA; 31 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAI29606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Best Loca
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 6
AAI29606
ID AAI29
XX
AC AAI29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ð
```

ö

Gaps

ö

ò 윱

Best Loca Natches

13-SEP-2001.

/ariation

```
The invention relates to a method of obtaining a stable transplastome, by transforming a recipient plastome (RP) with a polynucleotide having a copy transforming a recipient plastome (RP) with a polynucleotide having a copy of the cop
                                                                                                                                                                                                                                                                                                                                                                                         Obtaining a stable transplastome for producing a transplastomic cell, plant or seed, comprises transforming a recipient plastome with a polynucleotide comprising a 5' and 3' sequence homologous to the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Transgenic plant; transplastomic plant; medicament; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ifnG coding region DNA amplifying PCR primer, SR53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 21.4; DB 22;
Pred. No. 5.6e+04;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 42 BP; 15 A; 10 C; 11 G; 6 T; 0 other;
                                                                                                                                                                                                                               (ITGE-) INT CENT GENETIC ENG & BIOTECHNOLOGY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1.2%; Sco...
80.6%; Pred. No. J...
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (ITGE-) INT CENT GENETIC ENG & BIOTECHNOLOGY
                                                                                                                                                                                                                                                                                 Reddy S, Sadhu L, Shukla V, Ferraiolo G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        270 ACGIGCICCIGGGGAACTICGITCIGCA 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    35 ACGTACGGGTCCTGCCACCTTCGATCTGCA 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 12; Page 127; 128pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 8
AAD29563/c
ID AAD29563 standard; DNA; 42 BP.
                                                                                 08-DEC-2000; 2000WO-EP12446.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               14-JUL-2000; 2000GB-0017397.
                                                                                                                                       08-DEC-1999; 99GB-0029075.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       13-JUL-2001; 2001WO-EP08132.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 1.2
Best Local Similarity 80.6
Matches 25; Conservative
                                                                                                                                                                                                                                                                                                                                          WPI; 2001-381671/40.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Reddy VS, Sadhu L;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WO200206497-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Unidentified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         07-MAY-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 24-JAN-2002.
                            14-JUN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          recipient
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAD29563;
   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to the identification of nucleic acid molecules (AAI29513-AAI31314) from the human genome which include polymorphic sites which can predispose individuals at disease. Various genes from a number of individuals were resequenced and single nucleotide polymorphisms (SNPs) in these genes discovered. The method is useful for predicting the presence, absence or severity of a particular phenotype or disorder (e.g. diaberes) associated with a particular genotype. The nucleic acids containing the polymorphic sites may be useful in forcesics and paternity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Nucleic acid molecules from the human genome which include polymorphic stres, useful in methods for predicting the presence, absence or severity of a particular phenotype or disorder (e.g. diabetes) associated with a particular genotype
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                              Human; resequence; genotype; disease; forensic; paternity testing;
single nucleotide polymorphism; SNP; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Transplastome; plastiome; plastid; chloroplast; transgene; plant; ifnG; PCR primer; ss.
                                                                                                                                                                                                                                                  Location/Qualiflers
replace(16,C)
replace(16,C)
/stag a /standard_name- "single nucleotide polymorphism"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     .0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1.2%; Score 21.4; DB 22; Length 31; 80.6%; Pred. No. 4.9e+04; tive 0; Mismatches 6; Indels (
                                                     Human single nucleotide polymorphism (SNP) PCTAIRE3 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PCR primer SR53 for amplifying a 1fnG coding region.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 31 BP; 6 A; 9 C; 8 G; 8 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                577 GTCAGCCTATCTGAGATTGGCTTTGGGAAAC 607
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (WHED ) WHITEHEAD INST BIOMEDICAL RES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Cargill M, Ireland JS, Lander ES;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 1; Page 34; 145pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAH22523/c
ID AAH22523 Standard; DNA; 42 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             07-MAR-2001; 2001WO-US07268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                07-MAR-2000; 2000US-0187510.
22-MAY-2000; 2000US-0206129.
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  22-AUG-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        25; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2001-522952/57.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Bost Local Similarity
Natches 25; Conserv
                                                                                                                                                                                                                                                                                                                                                                                               WO200156800-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WO200142441-A2
18-OCT-2001
                                                                                                                                                                                                   Homo sapiens
```

5

Synthetic.

AAH22523;

RESULT 7

Query Match

ð 윱

testing.

ö

Gaps

ö

Length 42; Indels

```
Claim 28; Page 290; 587pp; English.
%#CCCCCCCCCCCCCCCCCCCX%%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       q
                                                                                                                                                                                                                                                                                                   The patent discloses a method of producing a protein of interest which involves expressing a polynucleotide fusion construct in a plastid to produce a fusion protein of interest where the construct comprises a polynucleotide coding sequence of the protein of construct comprises a polynucleotide coding sequence of a fusion percein of the invention are useful for producing a protein of interest uplication of partner. The methods of the invention are useful for producing a protein of interest which comprises a human protein or its biologically active variant or fragment, a human IFN-concileration of transgenic plants. Nethods of the invention are useful for the generation of transplastomic plant cells, plants and seeds. The protein of interest obtained by the methods of the invention is useful for the manufacture of a medicament for traating confuses condition. The present DNA sequence is a PCR primer which the exemplification of the invention to generate possible in the confuse of the invention of generate possible of the invention of the invention of generate possible of the invention of the invention to generate possible of the invention of the invention to generate possible of the invention of the invention to generate possible of the invention of the invention to generate possible of the invention to the invention to generate possible of the invention in the invention to generate possible of the invention of the invention to generate possible of the invention of the invention to g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                          Producing a protein of interest, e.g., a pharmaceutically active protein, comprises expressing a polynucleotide fusion construct in plastid and producing a fusion protein comprising the protein of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 42;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DNA protein-binding assay; test sequence; screening sequence promoter; target; TATA box; Herpes Simplex Virus; HSV; origin of replication; UL9; transcription factor; TFIID; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Fry KE, Turin LM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence-directed DNA-binding molecules - useful in pharmaceuticals and as molecular reagents
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 1.2%; Score 21.4; DB 24; Best Local Similarity 80.6%; Pred. No. 5.6e+04; Matches 25; Conservative 0; Mismatches 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 42 BP; 15 A; 10 C; 11 G; 6 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human H1 histone gene FNC16, target region.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    270 ACGIGCTGCTCGTGGGGAACTICGTTCTGCA 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Edwards CA,
                                                                                                                                                                                                                                                  Example 1; Page 90; 92pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (GENE-) GENELABS TECHNOLOGIES INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAQ69406 standard; DNA; 46 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          92US-0996783;
93US-0123936;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       93WO-US12388
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   27-FEB-1995 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Andrews BM, Cantor CR,
              WPI; 2002-171810/22.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1994-234711/28.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20-DEC-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      23-DEC-1992;
17-SEP-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   07-JUL-1994.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WO9414980-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAQ69406;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 9
```

ô g

```
11braries of synthetic or biological cpds. for their ability
1 to bind but asst sequences. The assay is versatile in that any
1 to bind but test sequences. The assay is versatile in that any
1 conditions a sequences. The assay is versatile in that any
1 conditions a defined protein-binding sequence. Binding
2 date to the sequence changes the binding characteristics
2 fmols to these test sequences changes the binding characteristics
3 of mols to the sequence changes the binding characteristics
3 of the protein mol. to its cognate binding sequence. When such a mol
3 disturbed, generating changes in the concentration of free DNA probe.
3 one application of this method is to everyoit ogeneral transcription
3 disturbed, generating changes in the concentration of free DNA probe.
3 cators (e.g. TFID), where the target region is typically selected
5 cross of correspond to promoter
5 cross (e.g. TFID), where the binding site for the eucaryoit cross and the
5 cross of the sequences and and AA669850 correspond to promoter
5 cargets (typically, TATA box-condy, sites) for human genes and the
5 sequences in AA69313-849 correspond to promoter targets for viral genes.
5 cargets sequences may also be randonly generated. DNA; protein
5 cargets (HVV) origin of replication and UL9 (see AA669851-52, AA669865 and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Duplex DNA; target region; binding characteristic; DNA binding protein; TFIID; transcription factor; binding site; inhibition; enhance; cancer; inherited genetic disorder; alpha-D-galactosidase A; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Altering binding characteristics of DNA binding proteins to duplex DNA - by attaching specific small cpd. to target region close to the protein's binding site, useful in treatment of viral disease, cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1.2%; Score 21.4; DB 15; Length 46; 71.8%; Pred. No. 5.8e+04; tive 0; Mismatches 11; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human Hl histone gene FNC16 gene TFIID binding site.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1641 GCGCTGGAGGGATGCCACACCCCTCACAGGGCAGCCCC 1679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2 GCGGTGGATTGGACGCTCCACCAATCACAGGGCAGCGCC 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 46 BP; 9 A; 14 C; 16 G; 7 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Fry KE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Edwards CA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENE-) GENELABS TECHNOLOGIES INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAT63868 standard; DNA; 46 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   910S-0723618.
920S-0996783.
930S-0123936.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            910S-0723618
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  93US-0171389
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            14-NAR-1997 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity 71.8 tes 28; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Andrews BM, Cantor CR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            HPI; 1997-020402/02.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        27-JUN-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10-DEC-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JS5578444-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           27-JUN-1991;
23-DEC-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          7-SEP-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAT63868;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Best Local
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 10
AAT63868
ID AAT6:
```

```
ð
     The sequences given in AAT63713-4312 represent duplex DNA's which act as target regions in the method of the invention. The method for altering the bindeding characteristics of a DNA-binding protein to duplex DNA comprises contacting the duplex DNA with a small molecule which indecide is bound to the target region, where, when the small molecule is bound to the target region, where, when the small molecule is added at a concentration effective to alter the coverlapping by more than 4 by. a binding site for a DNA-binding protein. Overlapping by more than 4 by. a binding site for a DNA-binding protein. Concentration effective to alter the binding of the DNA-binding site of the binding of the binding protein, pref. TFIID, to its binding site on the duplex DNA. The binding protein to its binding site. The compounds isolated using this method are potentially useful as therefore the binding of the DNA-binding protein to its binding site. The cherapeutic agents for rearment of any disease which involves a specific DNA sequence. e.g. cancer, or inherited genetic disorders etc. The method is suitable for screening large biological or chemical increasing and allows decembration of sequence-specific and relative the design of these duplex DNA's allows a single DNA:protein interaction to be used for screening sequence-specific, or preferential, DNA binding contaction that recognise almost any possible sequence (see also ANI49339-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Determination of DNA sequence preference of a DNA-binding molecule based on inhibition of binding of protein to oligonucleotide sequence attached to test sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Test sequence; DNA-binding molecule; screening sequence; human; nucleic acid amplification; target; viral; ds.
                                                                                                                                                                                                                                                                                                                                                                        ;
                                                                                                                                                                                                                                                                                                                                            1.2%; Score 21.4; DB 18; Length 46; 71.8%; Pred. No. 5.8e+04; tive 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Fry KE, Turin LM;
                                                                                                                                                                                                                                                                                                                                                                                                1641 GCGCCTGGAGGGATGCCACACCCTCACAGGGCAGCCCC 1679
                                                                                                                                                                                                                                                                                                                                                                                                             2 GCGGTGGATTGGACGCTCCACCAATCACAGGCAGCGCC 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Test sequence from human H1 histone gene FNC16.
                                                                                                                                                                                                                                                                                                                   Sequence 46 BP; 9 A; 14 C; 16 G; 7 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 3; Columns 179-180; 270pp; English.
Claim 6; Column 177-178; 264pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Cantor CR, Edwards CA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENE-) GENELABS TECHNOLOGIES INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAX17156 standard; DNA; 46 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           93US-0171389.
91US-0723618.
92US-0996783.
93US-0123936.
95US-0475228.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     95US-0475228
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             06-MAY-1999 (first entry)
                                                                                                                                                                                                                                                                                                                                                        1 Similarity 71.8
28; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 1999-152755/13.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20-DEC-1993;
27-JUN-1991;
23-DEC-1992;
17-SEP-1993;
07-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Andrews BM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    07-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US5869241-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        39-FEB-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAX17156;
                                                                                                                                                                                                                                                                                                                                                           Best Local
Matches 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 11
 8
                                                                                                                                                                                                                                                                                                                                                                                                 ð
```

```
Sequences AAX17001 to AAX17600 represent specifically claimed target test sequences that are used in the method of the invention of determining the DNA sequence preference of a DNA-binding molecule. The determining the DNA sequence preference of a DNA-binding protein to markence of duplex DNA test oligonucleotides, each of the test on mixture of duplex DNA test oligonucleotides, each of the test coligonucleotides having a test sequence adjacent to a screening sequence. Where the screening sequence binding protein with a colidon several test sequence of the DNA-binding protein with a confound several test sequences; (11) incubating the test molecule, the mixture of duplex DNA test coligonucleotides and the DNA-binding protein confoundes several test sequences; (11) incubating the test molecule to the sext of the test confounded to the test confounded to the test coligonucleotides in the duplex DNA; (111) separating unbound test coligonucleotides; (V) repeating steps (11) to (1V); (Vi) isolating the amplified test oligonucleotides; and (ViI) sequencing the isolating the amplified test coligonucleotides; and (VII) sequencing the isolating the amplified test coligonucleotides; on thuman sequences and AAX17600 correspond to promoter targets for human sequences and AAX17481-XI7599 correspond to promoter targets
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Decreasing transcriptional activity of genes for treating infections or cancer; by administration of an agent that binds to two non-overlapping regions of the gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DNA binding molecule screening; inhibition of transcription; infection; human immunodeficiency virus; HIV; parasite; cancer; cardiovascular; respiratory; gastrointestinal; endocrine; metabolic; rheumatic; immunological; haematological; neurological; psychiatric; dermatological; ophthalmological; musculo-skeletal; urogenital disorder; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 46;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 1.2%; Score 21.4; DB 20; Length 4 Best Local Similarity 71.8%; Pred. No. 5.8e+04; Matches 28; Conservative 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DNA binding molecule screening method test sequence #156.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1641 GCGGCTGGAGGGATGCCACACCCCTCACAGGGCAGCCCC 1679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2 GCGGTGGATTGGACGCTCCACCAATCACAGGGCAGCGCC 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Turin LM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 46 BP; 9 A; 14 C; 16 G; 7 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Cantor CR, Andrews BM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (GENE-) GENELABS TECHNOLOGIES INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ABK82647 standard; DNA; 46 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   95US-0482080.
91US-0723618.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               99US-0354947.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             93US-0171389.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         92US-0996783.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2002-442819/47.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             27-JUN-1991;
23-DEC-1992;
17-SEP-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US6384208-B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Edwards CA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       27-AUG-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               15-JUL-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20-DEC-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 07-MAY-2002.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ABK82647;
```

```
The invention relates to a method of decreasing transcriptional activity in a duplex decxylbonucleic acid (DNA) template (T1) comprising contacting (T1) with a binding agent comprising at least one small duplex binding molecule (T2) coupled to at least one other small duplex. DNA-binding molecule that binds to a non-overlapping region of target franscription of a sequence (TS). The method is useful for inhibiting transcription of a range of disease-related genes for treating infections (by viruses, not cluding human immunodeficiency virus, bacteria, fungi, protozon and parasites), cancer, cardiovascular, respiratory, gastrointestinal, enverological, rhemmetic/dmmunological, haemacological, neurological, genetic urogenital discretes. The method provides sequence-specific inhibition of transcription of pathological genes sequence-specific inhibition of transcription of pathological genes transcription factor, and can be applied to regulated by the same ABK81492-ABK83155 represent DNA binding molecule test sequences used in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DNA sequences AAK62100 - AAK62688 represent segments of human genes which
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New nucleic acid segments of the human genome, particularly from genes including polymorphic sites, for phenotype correlation, forensics, paternity testing, medicine and genetic analysis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Single nucleotide polymorphism; SNP; human; cancer; inflammation; heart disease; paternity testing; forensic science; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             //tag- a
/standard_name- 'single nucleotide polymorphism'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1.2%; Score 21.4; DB 24; Length 46;
llarity 71.8%; Pred. No. 5.8e+04;
Conservative 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PCTAIRE-1 polymorphism containing DNA fragment #96.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1641 GCGGCTGGAGGGATGCCACACCCTCACAGGGCAGCCCC 1679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2 GCGGTGGATTGGACGCTCCACCAATCACAGGCAGCGCC 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 46 BP; 9 A; 14 C; 16 G; 7 T; 0 other;
                     Example 15; SEQ ID No 156; 98pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (WHED ) WHITEHEAD INST BIOMEDICAL RES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Location/Qualiflers
replace(11,6)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Lander ES;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAH62195 standard; DNA; 21 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17-NOV-2000; 2000WO-US31639.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   99US-0167334.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Cargill M, Ireland JS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 1; Page 37; 80pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Best Local Similarity
Matches 28; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2001-367705/38,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO200138576-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              24-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             12-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo saptens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   31-MAY-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Key
Variation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAH62195;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 13
ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ð
```

Caps

ö

```
ö
contain single nucleotide polymorphisms (SNPs). A method is included in the the invention for analysing a nucleic acid sample, which consists of determining the base occupying any one of the polymorphic sites given in the SNP containing sequences. The nucleotide sequences can be used in the diagnosis or monitoring of diseases, such as cancer, inflammation, heart diseases, diseases of the cardiovascular system, and infection by microorganisms. The oligonucleotides are also useful in the manifecture of a medicament for the treatment or prophylaxis of the diseases, and as a pharmaceutical. SNP containing oligonucleotides are useful in medicine and genetic analysis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       progression of cervical cancer or a premalignant condition in a patient; and to select and/or assess the efficacy of a compound or therapy for inhibiting cervical cancer in a patient. The nucleic acids may also be useful for gene therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cervical cancer with cytostatic activity. The nucleic acids and encoded polypeptides are useful: to assess if a patient is afflicted with cervical cancer or has a pre-malignant condition; to monitor the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Cervical cancer; cytostatic; pre-malignant condition; gene therapy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New isolated nucleic acid for diagnosing and treating cervical cancer and for assessing and detecting compounds for treating the cancer
                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to novel genes (AAH68727-AAH73383) associated
                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                Length 21;
                                                                                                                                                                                                                                                                               0; Indels
                                                                                                                                                                                                                                          1.2%; Score 21; DB 22; I
100.0%; Pred. No. 5.4e+04;
ive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human cervical cancer marker nucleic acid 1933
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 46 BP; 7 A; 13 C; 18 G; 6 T; 2 other;
                                                                                                                                                                                                       Sequence 21 BP; 9 A; 4 C; 6 G; 2 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Berger A, Zhao X;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 1; Page 415; 1051pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                        ВР.
                                                                                                                                                                                                                                                                                                            702 CAAGGAGATCAGACTGGAACA 722
                                                                                                                                                                                                                                                                                                                                 1 CAAGGAGATCAGACTGGAACA 21
                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 14
AAH70659,C
ID AAH70659 standard; cDNA; 46
XX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 14-NAR-2000; 2000US-0189315.
12-NAX-2000; 2000US-0203791.
09-JUN-2000; 2000US-0210600.
21-JUL-2000; 2000US-0220114.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               08-DEC-2000; 2000WO-US33312
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    99us-0169681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19-SEP-2001 (first entry)
                                                                                                                                                                                                                                        Query Match
Best Local Similarity 100.C
Matches 21; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Deeds J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2001-375006/39.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO200142467-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo saptens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  08-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Schlegel R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                14-JUN-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAH70659;
   888888888888888
                                                                                                                                                                                                                                                                                                              ð
                                                                                                                                                                                                                                                                                                                                             셤
```

1.2%; Score 21; DB 22;

Query Match

```
ô
                       Gaps
                       ô
                     Indels
Best Local Similarity 71.1%; Pred. No. 7.3e+04;
Matches 27; Conservative 0; Mismatches 11;
```

550 AAGCCCTCAGCGGCGCCTCCGTCTCTCAGCCTATC 587 8 ò

RESULT 15

AAL34286/c ID AAL34286 standard; DNA; 50 BP.

AAL34286;

24-JAN-2002 (first entry)

Human SNP oligonucleotide #7494.

Immunosuppressive; immunostimulatory; antiinflammatory; cytostatic; neuroprotective; antimicrobial; gene therapy; vaccine; amylase; cancer; amyloid protein; anglopoletin; appotosis related protein; cancerin; cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor; complement related protein; cytochrome; kinase; colony stimulating factor; interleukin; G-protein coupled receptor; thioesterase; interferon; multifactorial disease; autoimmune disease; infection; nervous system disease; sa

Homo sapiens.

W0200147944-A2.

05-JUL-2001

28-DEC-2000; 2000WO-US35498.

28-DEC-1999; 99US-0173419. 27-DEC-2000; 2000US-0173419.

(CURA-) CURAGEN CORP.

Shimkets RA, Leach M; WPI; 2001-465210/50. Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases, oncogenes and histones, useful for diagnosing and treating, e.g. cancer, autoimmune diseases and infections -

Claim 1; Page 3547; 4143pp; English

The present invention relates to oligonuclectides encoding polymorphic variants of proteins related to amylases, amyloid proteins, angiopotetin, operates related proteins, cadherin, cyclin, polymerase, oncogenes, instenses, kinases, colony stimulating factors. Complement related proteins, vincerient captured receptors and thieserases. The present sequence is one such oligonucleotides and the peptides encoded by them may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate expression of the proteins listed above. Disorders that may be prevented, diagnosed and/or treated include multifactorial diseases with a genetic component, such as autoimmune of diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes, systemic lupus erythromatosus and Grave's disease), inflammation, cancer (e.g. cancers of the bladder, brain, breast, colon and kidney, and a celebration. 

Sequence 50 BP; 1 Å; 27 C; 11 G; 11 T; 0 other;

. ö Gaps ö 1.2%; Score 21; DB 22; Length 50; larity 66.7%; Pred. No. 7.6e+04; Conservative 0; Mismatches 15; Indels Local Similarity nes 30; Conserva Query Match

ð 8

Search completed: March 3, 2003, 22:46:23 Job time : 431 secs

APPLI APPLI

Sequence 27, sequence 19, Sequence 582, Sequence 582, Sequence 582, Sequence 582, Sequence 31, Sequence 5, A Sequence 6, A Sequence 5, A Sequence 5, A Sequence 5, A Sequence 6, A Seque

```
Sequence 5, Application US/08334177

Sequence 5, Application US/08334177

Patent No. 5696008

Patent No. 5696008

Patent No. 5696008

APPLICANT: Avraham, Hava Rarsenty

APPLICANT: Godwaki, Paul J.

TITLE OF INVENTION: Methods and Kits Using Macrophage Stimulating Protein

NUMBER OF SEQUENCES: 10

CORRESPONDENCE ADDRESS: 16

CORRESPONDENCE ADDRESS: Genentech, Inc.

STREET: 460 Point San Bruno Blvd

CITY: South San Francisco

STATE: Galifornia

COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        241 GGGGGGAGTGACCTGGAGAGGCCCCCACACGTGCTGCTCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ZIP: 94.080
COMPUTER READABLE FORM:
NEDIUM TYPE: 5.25 inch, 360 kb floppy disk
COMPUTER: 1BM PC compatible
OPERATING SYSTEM: RC-DOS/MS-DOS
SOFTWARE: PALIO (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/334,177
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
FILING DATE:
/ Match 1.3%; Score 22.2; DB 1; Local Similarity 69.8%; Pred. No. 5.8e+03; nes 30; Conservative 0; Mismatches 13;
                                                                                                                                                                                                                         US-08-583-2528-32
US-08-555-268A-5
US-08-555-268A-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME: Marechang, Diane L.
REGISTRATION NUMBER: 35,600
REFERENCE/POCKET NUMBER: 912
FELECOMUNICATION INFORMATION:
TELEPRONE: 415/225-5416
TELEFAX: 415/952-9881
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEFAX: 415/952-9861
TELEX: 910/371-7168
INFORMATION FOR SEQ ID NO:
SEQUENCE CHRACTERISTICS:
LENGTH: 47 bases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-334-177-5
Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
228
333333334
444
444
454
454
454
454
454
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 5, Appl1
Sequence 9, Appl1
Sequence 156, App
Sequence 39, Appl
Sequence 31, Appl
Sequence 47, Appl
Sequence 21, Appl
Sequence 21, Appl
Sequence 31, Appl
                                                                                         March 3, 2003, 22:35:55 ; Search time 76 Seconds (without alignments) 7041.460 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.
                                                                                                                                                                                 1 tggaagcagcgtaaaggatg.....gttcacctgcccacttgtcc 1745
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Description
                                                                                                                                                                                                                                                                                                                                                                                                                            Issued_Patents_NA:*

/ Cgn2_6/ptodata/1/ina/5A_COMB.seq:*
// Cgn2_6/ptodata/1/ina/6A_COMB.seq:*
// Cgn2_6/ptodata/1/ina/6A_COMB.seq:*
// Cgn2_6/ptodata/1/ina/6A_COMB.seq:*
// Cgn2_6/ptodata/1/ina/ptofal_Seq:*
// Cgn2_6/ptodata/1/ina/packfiles1.seq:*
        GenCore version 5.1.4_p5_4578
Copyright (c) 1993 - 2003 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PCT-US95-13830-5
US-08-507-426C-9
US-08-127-395-136
US-08-475-228A-136
US-08-482-080A-136
US-09-354-247-156
PCT-US93-42388-136
US-08-333-009-33
                                                                                                                                                                                                                                                                                    Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -09-678-437-47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-334-177-5
                                                                                                                                                                                                                                                            441362 seqs, 153338381 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SUMMARIES
                                                             nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                                                Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                                                               IDENTITY_NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                     US-10-017-621-3
1745
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length
                                                                                                                                                                                                                                                                                                                     Minimum DB seq length: 0 Maximum DB seq length: 50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query
                                                                                                                                                                    Perfect score:
                                                                                                                                                                                                              Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 19.6
19.6
19.6
                                                               OM nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                            Database :
                                                                                                                                                                                     Seguence:
                                                                                                                                                                                                                                                            Searched:
                                                                                           Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Result
```

ö

Gaps

ö

13;

Length 47; Indels

Gaps ö

셤

```
) OTHER INFORMATION: Description of Artificial Sequence:Synthetic; OTHER INFORMATION: ribozymes and portions thereof US-08-507-426C-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Edwards, Cynthia A.
APPLICANT: Cantor, Charles R.
APPLICANT: Andrews, Beth M.
APPLICANT: Andrews, Beth M.
APPLICANT: Turin, Lisa M.
APPLICANT: Fry, Kirk E.
TITLE OF INVEWTION: Sequence-Directed DNA Binding
TITLE OF INVEWTION: Molecules, Compositions and Methods
NUMBER OF SEQUENCES: 641
CORRESPONDENCE ADDRESS:
ADDRESSE: Genelabs Technologies, Inc.
STREET: 505 Penobscot Drive
                                                                                                                           Length 44;
                                                                                                                                                                                                                               1559 CGTCGATGCCTGACTCAGGCAGGCCAGCTTTCCGCGTGGTG 1599
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   INDIVIDUAL ISOLATE: Human H1 histone gene FNC16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTMARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                          42 CCTTGGTGGACGACTCAGGCACTCCTGCTTTGCGCCTGCTG 2
                                                                                                                           Ouery Match 1.2%; Score 21.8; DB 4; Best Local Similarity 70.7%; Pred. No. 7.2e+03; Matches 29; Conservative 0; Mismatches 12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME: Fabian, Gary R.
REGISTRATION NUMBER: 33,875
REFERENCE/DOCKET NUMBER: 4600-0175/G19P3
TELECOMUNICATION INFORMATION:
TELEPHONE: (415) 324-0880
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US 07/723,618
FILING DATE: 27-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/001,070
FILING DATE: 22-JUN-1993
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/123,936
FILING DATE: 17-SEP-1993
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: US 07/996,783
FILING DATE: 23-DEC-1992
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 156, Application US/08171389 Patent No. 5578444 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MOLECULE TYPE: DNA (genomic)
HYPOTHEFICAL: NO
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (415) 324-0880
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Redwood City
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STATE:
                                                                                                                                                                                                                               ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 9, Application US/08507426C.
Sequence 9, Application US/08507426C.
Patent No. 6265634
GENERAL INFORMATION:
TITLE OF INVENTION: POLYRIBOZINE CAPABLE OF CONFERRING ON PLANTS RESISTANCE:
TITLE OF INVENTION: TO VIROSES AND RESISTANT PLANTS PRODUCING THIS
TITLE OF INVENTION: POLYRIBOZINE
FILE REFERENCE: 43944-A-PCT-US
CURRENT APPLICATION NUMBER: 43944-A-PCT-US
PRIOR FILING DATE: 1995-10-25
NUMBER OF SEQ ID NOS: 14
SOFTWARE: PATENTIN VET. 2.1
SENCTH: 44
                                                                                                              Sequence 5, Application PC/TUS9513830
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Genentech, Inc.
APPLICANT: New England Deaconess Hospital Corp.
TIPLE OF INVENTION: Wethods and Kits Using Nacrophage Stimulating TIPLE OF INVENTION: Protein NUMBER OF SEQUENCES: 10
CORRESPONDENCES: Genentech, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ő
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 22.2; DB 5; Length 47;
Pred. No. 5.8e+03;
0; Mismatches 13; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    241 GGCGCAGTGACCCTGGAGGCCCCCACACGTGCTGCTG 283
2 GCACGAATCCACCATGGGGTGGCTCCCACTCCTGCTGCTTCTG 44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2 GGACGAATCCACCATGGGGTGCCTCCACTCCTGCTTCTG 44
                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READMALE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
COMPUTER: IBM PC COMPATED.
OPPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatin (Genentech)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/13830
                                                                                                                                                                                                                                                                                                                    ADDRESSEE: Genentech, Inc.
STREET: 460 Point san Bruno Blvd
CITY: South San Francisco
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME: MASSCRANG, Diane L.
REGISTRATION NUMBER: 35,600
REFERENCE/DOCKET NUMBER: P091:
TELECOMUNICATION INFORMATION:
TELEPHONE: 415/255-516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEPHONE: 415/225-5416
TELERA: 415/952-981
TELEX: 910/371-7169
INFONATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 1.3%;
Best Local Similarity 69.8%;
Matches 30; Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGTR: '47 base pairs
TYPE: Nucleic Acid
STRANDEDNESS: Single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                             USA
                                                                                                                                                                                                                                                                                                                                                                                                                                             94080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-08-507-426C-9/c
```

; TOPOLOGY: PCT-US95-13830-5

ò g Application US/08475228A

```
RESULT 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                   ö
                                                   Gaps
                                                   ö
                                                                                                                                                                                                            APPLICANT: Edwards, Cynthia A.
APPLICANT: Cantor, Charles R.
APPLICANT: Andrews, Beth M.
APPLICANT: Andrews, Beth M.
TITLE OF INVENTION: Screening Assay for the Detection of TITLE OF INVENTION: DAN-Binding Molecules
NUMBER OF SEQUENCES: 640
CORRESPONDENCE ADDRESS:
STREFF
           Length 46;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1.2%; Score 21.4; DB 1; Length 46; 71.8%; Pred. No. 9.3e+03; tive 0; Mismatches 11; Indels
    Score 21.4; DB 1; Length 4 Pred. No. 9.3e+03; 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              : INDIVIDUAL ISOLATE: Human H1 histone gene FNC16
US-08-123-936-156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTMARE: PETENTIN RELEASE #1.0, Version #1.25
CURENT APPLICATION DATA:
APPLICATION NUMBER: US/08/123,936
                                                                            1641 GCGGCTGGAGGGATGCCACACCCCTCACAGGGCAGCCCC 1679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1641 GCGGCTGGAGGGATGCCACACCCCTCACAGGGCAGCCCC 1679
                                                                                                         2 GCGCTGGATTGGACGCTCCACCAATCACAGGGCAGCGCC 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2 GCGGTGGATTGGACGCTCCACCAATCACAGGGCAGCGCC 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REGISTRATION NUMBER: 33,875
REFERENCE/DOCKET NUMBER: 4600-0075.32/G19P2
TELECHNUNICATION INFORMATION:
TELEPHONE: (415) 324-0880
TELEFAX: (415) 324-0960
                                                                                                                                                                                                                                                                                                                                                                                                                                                SEE: Genelabs Technologies, Inc.: 505 Penobscot Drive
Redwood City
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: US 07/996,783 FLING NATE: 23-92 PRIOR APPLICATION DATE: 3-92 APPLICATION NUMBER: US 07/723,618
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US 07/723,618
FILING DATE: 27-JUN-1991
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
Query Match 1.2%;
Best Local Similarity 71.8%;
Matches 28; Conscrvative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEFAX: (415) 324-0960
ORMATION FOR SEQ ID NO: 1
EQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 1.2%
Best Local Similarity 71.8%
Natches 28; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGIH: 46 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ZIP: 94063
COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CLASSIFICATION: 435
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     nucleic acto
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 USA
                                                                                                                                                                                                   1-123-936-156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STATE: CA
                                                                              õ
                                                                                                                    g
```

RESULT 6

8 ð

```
Length 46;

    Sequence-Directed DNA Binding
    Molecules, Compositions and Methods
    5: 664

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11; Indels
                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READBLE FORM:
WEDIOM TYPE: Floppy disk
COMPUTER: TBM FC Competible
OPERATING SYSTEM: FC-FOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NOTABER: US/08/475,228A
FILING DATE: 0-C-TUN-1995
FILING DATE: 1-SEE--993
FRIOR APPLICATION NOTABER: US 08/123,936
FILING DATE: 1-SEE--993
FRIOR APPLICATION DATA:
APPLICATION NOTABER: US 07/996,783
FILING DATE: 23-DEC-1992
PRIOR APPLICATION NOTA:
FILING DATE: 27-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NOTABER: US 07/723,618
FILING DATE: 27-JUN-1991
PRIOR APPLICATION NOTARE: US 08/081,070
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 i INDIVIDUAL ISOLATE: Human H1 histone gene PNC16
US-08-475-228A-156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1641 GCGGCTGGAGGATGCCACACCCTCACAGGGCAGCCCC 1679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: US 08/081,070
PILICATION NUMBER: US 08/081,070
PILICO DATE: 22-JUN-1993
ATOCNEY/ACENT INFORMATION:
NAME: Stratford, Carol A.
RECIENTATION NUMBER: 34,444
REFERENCE/DOCKET NUMBER: 4600-0175.21/G19P3D2
TELECOMMUNICATION INPORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 1.2%; Score 21.4; DB 2; Best Local Similarity 71.8%; Pred. No. 9.3e+03; Matches 28; Conservative 0; Mismatches 11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2 GCGGTGGATTGGACGCTCCACCATCACAGGGCAGCGCC 40
                                                                                                                                                                                                     CORRESPONDENCE ADDRESS:
ADDRESSEE: Genelabs Technologies, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 156, Application US/08482080A
Patent No. 6010849
GENERAL INFORMATION:
APPLICANT: Edwards, Cynthia A.
APPLICANT: Edwards, Cynthia A. APPLICANT: Cantor, Charles R. APPLICANT: Andrews, Beth N. APPLICANT: Turin, Lisa M. APPLICANT: FVY, Kirk E. TITLE OF INVENTION: Sequence-blirtille OF INVENTION: Molecules, C
                                                                                                                                                                                                                                                         : 505 Penobscot Drive
Redwood City
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MOLECULE TYPE: DNA (genomic) HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEFAX: (415) 324-0960
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH: 46 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                               94063
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-08-482-080A-156
                                                                                                                                                                                                                                                                                                                                        COUNTRY:
                                                                                                                                                                                                                                                                  STREET:
```

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 46;
APPLICANT: Turin, Lisa M.
APPLICANT: Fur, Kirk E.
TITLE OF INVENTION: Sequence-Directed DNA Binding
TITLE OF INVENTION: Molecules, Compositions and Methods
NUMBER OF SEQUENCES: 664
CORRESPONDENCE ADDRESS:
STREET: 505 Penobscot Drive
STREET: Redwood City
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TOPOLOGY: linear
NOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
CRICIARAL SOURCE:
INDIVIDUAL ISOLATE: Human H1 histone gene FNC16
US-09-34-947-156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DAIN:
APPLICATION NUMBER: US/09/354,947
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1641 GCGGCTGGAGGGATGCCACACCCCTCACAGGGCAGCCCC 1679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4600-0175.20/G19P3D1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 1.2%; Score 21.4; DB 4; Best Local Similarity 71.8%; Pred. No. 9.3e+03; Matches 28; Conservative 0; Mismatches 11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2 GCGGTGGATTGGACGCTCCACCAATCACAGGGCAGCGCC 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/482,080
FILING DATE: 07-JUN-1993
PRIOR APPLICATION NUMBER: US 08/171,389
FILING DATE: 20-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/123,936
FILING DATE: 17-SEP-1993
PRIOR APPLICATION NUMBER: US 07/996,783
FILING DATE: 23-DEC-1992
PRIOR APPLICATION NUMBER: US 07/996,783
FILING DATE: 23-DEC-1992
PRIOR APPLICATION NUMBER: US 07/723,618
FILING DATE: 27-DUN-1991
PRIOR APPLICATION NUMBER: US 08/723,618
FILING DATE: 27-DUN-1991
PRIOR APPLICATION NUMBER: US 08/081,070
                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTY.

ZIP: 94063

ZIP: 94063

**COMPUTER READABLE FORM:

MEDIUM TIPE: Floppy disk

**MEDIUM TIPE: Floppy disk

**TOMPOTER: IBM PC COMPATIALE

**TOMPOTER: ISM PC COMPATIALE

**TOMPOTER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US 08/081,070 FILING DATE: 22-JUN-1993 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 156, Application PC/TUS9312388 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME: Brady, John F. REGISTRATION NUMBER: 39,118
REFERENCE/DOCKET NUMBER: 46(
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 324-0880
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEFAX: (650) 324-0960
INFORMATION FOR SEQ ID NO: 3
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      46 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: nucleic acid
STRANDEDNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEPHONE:
TELEFAX: (6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 9
PCT-US93-12388-156
                                                                                                                                                                                                                                                                                                                                                                        CITY: 1
STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 1.24; Score 21.4; DB 3; Length 46; Best Local Similarity 71.84; Pred. No. 9.3e+03; Matches 28; Conservative 0; Mismatches 11; Indels
                                                                                                                           APPLICANT: Fry, Kirk E.
TITLE OF INVENTION: Sequence-Directed DNA Binding
TITLE OF INVENTION: Molecules, Compositions and Methods
UNDER OF SEQUENCES: 664
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:

WEDIOM TYPE: Floppy disk
COMPUTER: IMP FOR compatible
OPERATING SYSTEM: COMPATIBLE
OPERATING SYSTEM: COMPATIBLE
OPERATING SYSTEM: COMPATIBLE
OPERATING SYSTEM: COMPATIBLE
OPERATION OPERATION DATA:
APPLICATION NUMBER: US/08/482,080A
FILNG DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/171,389
FILNG DATE: 17-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/123,936
FILNG DATE: 17-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/996,783
FILNG DATE: 23-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/081,070
FILNG DATE: 37-JUN-1991
PRIOR APPLICATION NUMBER: US 08/081,070
FILNG DATE: 37-JUN-1991
APPLICATION NUMBER: US 08/081,070
FILNG DATE: 37-JUN-1993
APPLICATION NUMBER: US 08/081,070
FILNG DATE: 37-JUN-1993
APPLICATION NUMBER: 4600-0175.20/G19P3D1
FELECOMMUNICATION INFORMATION:
FELECOMU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        : ORIGINAL SOURCE:
i: ONIGINAL SOURCE:
iS-08-481-10001 ISOLATE: Human H1 histone gene FNC16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1641 GCGCTGGAGGGATGCCACACCCTCACAGGGCAGCCCC 1679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2 GCGGTGGATTGGACGCTCCACCAATCACAGGGCAGCGCC 40
                                                                                                                                                                                                                                                                                                                                      SEE: Genelabs Technologies, Inc.: 505 Penobscot Drive
Redwood City
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 156, Application US/09354947
Patent No. 6384208.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEFAX: (650) 324-0960
INFORMATION FOR SEQ ID NO: 156:
SEQUENCE CHRACTERISTICS:
LENGTH: 46 base pairs
TYPE: nucleic acid
Cantor, Charles R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MOLECULE TYPE: DNA (genomic) HYPOTHETICAL: NO
                                                 Beth M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 USA
                                                                                                                                                                                                                                                                                                                                                         ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 8
US-09-354-947-156
                                  APPLICANT:
APPLICANT:
```

Sequence-Directed DNA Binding Molecules, Compositions and Methods 641

APPLICANT: TITLE OF INVENTION: S TITLE OF INVENTION: M

APPLICANT: Edwards, Cynthia A. APPLICANT: Cantor, Charles R. APPLICANT: ANGIEWS, Beth M.

INFORMATION:

ò

us-10-017-621-3.lim50.rni

```
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
                                                                                                                                                                                                                                                                                                                   TYPE: nucleic acid
STRANDEDNESS: both
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STATE: CA
COUNTRY: USA
CONTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                              ; ANTI-SENSE: YES
US-08-233-009-33
                                                                                                                                                                                                                                                                                                                                                                                     MOLECULE TYPE:
HYPOTHETICAL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         JS-08-285-936-38/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Jacobson, Marlene A
APPLICANT: Jacobson, Robert G
APPLICANT: Johnson, Robert G
APPLICANT: Salvatore, Christopher A
TITLE OF INVENTION: INHIBITION OF EOSINOPHIL
TITLE OF INVENTION: ACTIVATION THROUGH A3 ADENOSINE RECEPTOR ANTAGONISM
NUMBERS OF SEQUENCES: 56
CORRESPONDENCE ADDRESS:
ADDRESSEE: METCK & Co., Inc.
STRRET: P.O.BOX 2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 1.2%; Score 21.4; DB 5; Length 46; Best Local Similarity 71.8%; Pred. No. 9.3e+03; Matches 28; Conservative 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME: Fabian, Gary R.
REGISTRATION NUMBER: 33,875
REERRICE/DOCKET WHERER: 4600-0175.41/G19PCT2
TELECOMUNICATION INPORMATION:
TELEPHONE: (415) 324-0880
TELEFAX: (415) 324-0860
INFORMATION FOR SEQ ID NO: 156:
SEQUENCE CHARACTERISTICS:
LENGTH: 46 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
                                                                                                                                           COMPTER REPABLE FORM:
WEDING TYPE: Floppy disk
WEDING TYPE: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; INDIVIDUAL ISOLATE: Human H1 histone gene FNC16 PCT-US93-12388-156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM:
WEDIOM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
COMPUTER: PR-PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1641 GCGCTGGAGGGATGCCACACCCCTCACAGGGCAGCCCC 1679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2 GCGGTGGATTGGACGCTCCACCAATCACAGGGCAGCGCC 40
                     SEE: Genelabs Technologies, Inc.: 505 Penobscot Drive
Redwood City
                                                                                                                                                                                                                                                                                                                          CLASSIFICATION:
PRIOR APPLICATION DATA:
PRIOR APPLICATION NUMBER: US 08/123,936
FILING DATE: 17-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/996,783
FILING DATE: 23-DEC-1992
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                           CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/12388
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 33, Application US/08233009
Patent No. 5646156
GEHERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STATE: New Jersey
COUNTRY: United States
2IP: 07065
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORIGINAL SOURCE:
                                                               CITY:
STATE: CA
COUNTRY: USA
TO: 94063
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CITY: Rahway
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       05-08-233-009-33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
```

```
APPLICATION HANDLES US/08/233,009
FILING DATE: STAR.1934
ATOMORNAL MANDLES US/08/233,009
FILING DATE: STAR.1934
ATOMORNAL MANDLES US/08/234,109
FILING DATE: STAR.1934
ATOMORNAL MANDLES US/08/234,109
FILING WARTHER WINDER: 35,746
RECEDENCY CONTENT WINDER: 36,747
FILING WARTHORN SED UN 03, 311
FILING WARTHORN SED UN 03, 311
FILING WARTHORN SED UN 04, 3154-04; 30, 314
FILING WARTHORN SED UN 05, 314
FILING WARTHORN SED UN 06, 3154-04; 30, 314
FILING WARTHORN SED UN 06, 3154-316
CONSTRUCTOR WINDERS: MANDLE SED WARTHORN SED UN 06, 3154-316
CONSTRUCTOR WINDERS: MANDLE SED WARTHORN SED UN 06, 3154-316
FILING WARTHER REMARLE SOME WARTHORN SED UN 06, 3154-316
CONSTRUCTOR WINDERS: MANDLE SED WARTHORN SED UN 06, 3154-316
FILING WARTHER WARTHORN SED UN 06, 3154-316
FILING WARTHER WARTHORN SED UN 06, 3154-316
FILING WARTHER WARTHORN SED UN 06, 316
FILING WARTH SED WARTHORN SED UN 06, 316
FILING WARTHORN SED UN 06, 316
FIL
```

```
NETHOD OF ELIMINATING INHIBITORY/INSTABILITY REGIONS OF MRNA
INHIBITORY/INSTABILITY REGIONS OF MRNA
130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 48;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 1.2%; Score 20.4; DB 2; I
Best Local Similarity 71.1%; Pred. No. 1.7e+04;
Matches 27; Conservative 0; Mismatches 11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   325 GAGATTGTGCACGAGGACTTGAAGATGGGGTCTGATGG 362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CURRENT APPLICATION DATA:

APPLICATION NUMBER: US,08/850,049
FILING DATE: 02-HAY-1997
CLASSIFTCATION: 435
RIOR APPLICATION NUMBER: US 08/050,478
FILING DATE: 26-OCT-1994
CLASSIFTCATION: A35
RIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/050,478
FILING DATE: 29-HAR-1993
CLASSIFTCATION: 435
PRIOR APPLICATION: 435
FILING DATE: 29-HAR-1993
CLASSIFTCATION: 435
FILING DATE: 27-HAR-1993
CLASSIFTCATION: 435
APPRICATION NUMBER: US 07/858,747
FILING DATE: 27-HAR-1993
CLASSIFTCATION: 435
APPORTATION NUMBER: 34,398
REGISTRATION NUMBER: 34,398
REGISTRATION NUMBER: 34,398
REGISTRATION NUMBER: 34,398
REGISTRATION NUMBER: 34,398
TELECOMMUNICATION NUMBER: 2026-4006US]
TELECOMMUNICATION NUMBER: 2026-4006US]
TELECOMMUNICATION: (212),759-4800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 14
US-08-050-478-47
Sequence 47, Application US/08050478
Patent No. 5972596
GENERAL INFORMATION:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
TITLE OF INVENTION: NETHOD OF ELIMINTIAL OF INVENTION: INHIBITORY/INSTATION:
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                  COMMUTER REALBLE FORM:
WEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SISTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
                      TILLE OF INVENTION: INHIBITORY/IN
UMBER OF SEQUENCES: 130
CORRESPONDENCE ADDRESS:
ADDRESSE: WORGAN & FINNEGAN
SPREET: 345 PARK AVENUE
CITY: NEW YORK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEFAX: (212)751-6849
INFORMATION FOR SED ID NO: 47:
SEQUENCE CHARACTERISTICS:
LENGTH: 48 BASE PAIRS
TYPE: NUCLEIC ACID
STRANDEDNESS: SINGLE
109-08-850-049-47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ZIP: 10154
COMPUTER READABLE FORM
                                                                                                                                                                                                                            NEW YORK
                                                                                                                                                                                                                            STATE: NEW COUNTRY: US ZIP: 10154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  d
D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
APPLICANT: Yelton, Dale
APPLICANT: Glaser, Scott
APPLICANT: Huse, William
APPLICANT: Rosok, Mae J.
APPLICANT: Rosok, Mae J.
TITLE OF INVENTION: Roncisonal Equivalents Reactive With Human Carcinomas NUMBER OF SEQUENCES: 62
CORRESSPONDENCES. 62
CORRESSPONDENCE ADDRESS.
ADDRESSEE: Merchant & Gould
STREET: 11150 Santa Monica Bldv., Suite 400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ouery Match 1.2%; Score 20.6; DB 1; Length 45; Best Local Similarity 67.4%; Pred. No. 1.5s+04; Addhes 29; Conservative 0; Mismatches 14; Indels Matches 29; Conservative 0; Mismatches 14; Indels
                                                                                     Query Match
1.24; Score 20.6; DB 1; Length 45;
Best Local Similarity 67.44; Pred. No. 1.56+04.
Matches 29; Conservative 0; Mismatches 14; Indels
Matches 29.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTEY: UGA
COMPUTEY: UGA
COMPUTER: READABLE FORM;
MEDIOM TYPE: Floppy disk
COMPUTER: IBM FC compatible
COMPUTES: IBM FC compatible
COMPUTED: Parentn Release #1.0, Version #1.25
CURRENT APPLICATION DATH: US/08/487, 860
FILING DATE: US/08/487, 860
FILING DATE: US/08/487, 860
CLASSIFICATION: 530
ATORNEY/AGENT INFORMATION:
REFERENCE/DOCKET NUMBER: 34,470
REFERENCE/DOCKET NUMBER: 34,470
REFERENCE/DOCKET NUMBER: 34,470
REFERENCE/COMPUTED NUMBER: 310-445-1140
FELEPHONE: 310-445-9031
INFORMATION FOR SED ID NO: 38:
SEQUENCE CHARACTERISTICS:
LENGTH: 45 base pairs
TEMPRATION FOR SED ID NO: 38:
SEQUENCE CHARACTERISTICS:
LENGTH: 45 base pairs
TEMPRATION FOR SED ID NO: 38:
TEMPRAT
                                                                                                                                                                                                                        328 ATTGTGCACGAGGACTTGAAGATGGGGTCTGATGGGGAGAGTG 370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    328, ATTGTGCACGAGGACTTGAAGATGGGGTCTGATGGGGAGAGTG 370
                                                                                                                                                                                                                                                          APPLICANT:
APPLICANT:
IITLE OF INVENTION: METHOD OF ELIMINATING
                                                                                                                                                                                                                                                                                                                                                                                     RESULT 12
0S-00487-860-38/c
; Sequence 38, Application US/08487860
; Patent No. 5792456
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 47, Application US/08850049; Patent No. 5965726; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; MOLECULE TYPE: DNA (genomic) US-08-487-860-38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CITY: LOS Angeles
STATE: CA
                      US-08-285-936-38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 13
US-08-850-049-47
                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Š
```

```
Search completed: March 4, 2003, 00:52:00 Job time : 80 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 47, Application US/09414117

Sequence 47, Application US/09414117

Sequence 47, Application US/09414117

Settle No. 6291664

SERREAL INFORMATION:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ouery Match 1.2%; Score 20.4; DB 2; Length 46; Best Local Similarity 71.1%; Pred. No. 1.7e+04; Matches 27; Conservative 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            325 GAGATTGTGCACGAGGACTTGAAGATGGGGTCTGATGG 362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             7 GACACGCTGCCCTGAACTTGAAGCCGGGGATGGATGG 44
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IAM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/050,478
FILING DATE: 26-OC7-1994
CLASSIFICATION NUMBER: PCT/US93/02908
FILING DATE: 29-MAR-1993
CLASSIFICATION NUMBER: DS/07/958,747
FILING DATE: 27-MAR-1993
CLASSIFICATION: 435
APPLICATION NUMBER: US/07/958,747
FILING DATE: 27-MAR-1992
CLASSIFICATION: 435
ATTORNEY/ACENT INFORMATION:
NAME: WORRY, MARY J.
REGISTRATION NUMBER: 20.26-4006US1
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION PROPREMATION:
TELECOMMUNICATION PROPREMATION PRO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCI/US93/02908
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/414,117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CLASSIFICATION:
PRIOR APPLICATION DATA:
PRILCATION NUMBER: 08/850,049
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: NUCLEIC ACID
STRANDEDNESS: SINCLE
TOPOLOGY: LINEAR
US-08-050-478-47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN &
STREET: 345 PARK AVE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          õ
```

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 48;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
1.2%; Score 20.4; DB 4; Length 46
Best Local Similarity 71.1%; Pred. No. 1.7e+04;
Matches 27; Conservative 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         325 GAGATTGTGCACGAGGACTTGAAGATGGGGTCTGATGG 362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION

APPLICATION DATA:

APPLICATION NUMBER: US 07/858,747

FILING DATE: 27-MAR-1992

CLASSIFICATION:

ATTONNEY/ACRETY TRYORMATION:

NAME: MORRY, MARY J.

REGISTRATION NUMBER: 34,398

REFERENCE/POCKETY NUMBER: 2026-4006US1

TELECOMUNICATION INFORMATION:

TELECOMUNICATION INFORMATION:

TELECOMUNICATION OF SEQ 10 NO: 35 TELECOMUNICATION OF SEQ 10 NO: 47: SEQUENCE CHARACTERISTICS:

LENGTH: 48 BASE PAIRS

TYPE: NUCLEIC ACID

STRANDEDNESS: SIGGLE

THENTORY TARRACTERISTICS:

LENGTH: 48 BASE PAIRS

TYPE: NUCLEIC ACID

STRANDEDNESS: SIGGLE

THENTORY TARRACTERISTICS:

TYPE: NUCLEIC ACID
29-MAR-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; TOPOLOGY: LINEAR
US-09-414-117-47
```

## GenCore version 5.1.4\_p5\_4578 Copyright (c) 1993 - 2003 Compugen Ltd.

(without alignments) 8182.066 Million cell updates/sec US-10-017-621-3 1745 1 tggaagcagcgtaaaggatg.....gttcacctgcccacttgtcc 1745 March 3, 2003, 22:39:05; Search time 133 Seconds OM nucleic - nucleic search, using sw model Title: Perfect score: Sequence: Run on:

460893 seqs, 311809382 residues IDENTITY\_NUC Gapop 10.0 , Gapext 1.0 Scoring table: Searched:

Total number of hits satisfying chosen parameters: Minimum DB seq length: 0 Maximum DB seq length: 50

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

/cgn2\_6/ptodata/2/pubna/USO1\_puBCOMB.seq:\*
/cgn2\_6/ptodata/2/pubna/USO1\_puBcOMB.seq:\*
/cgn2\_6/ptodata/2/pubna/USO6\_NEW\_PUB.seq:\*
/cgn2\_6/ptodata/2/pubna/USO6\_NEW\_PUB.seq:\*
/cgn2\_6/ptodata/2/pubna/USO6\_NEW\_PUB.seq:\*
/cgn2\_6/ptodata/2/pubna/PCTUS\_PUBCOMB.seq:\*
/cgn2\_6/ptodata/2/pubna/PCTUS\_PUBCOMB.seq:\*
/cgn2\_6/ptodata/2/pubna/PCTUS\_PUBCOMB.seq:\*
/cgn2\_6/ptodata/2/pubna/USOB\_NEW\_PUB.seq:\*
/cgn2\_6/ptodata/2/pubna/USOB\_PUBCOMB.seq:\* /cgn2\_6/ptodata/2/pubpna/U310\_NEM\_PUB.seq:\* /cgn2\_6/ptodata/2/pubpnu/U310\_UBUGOMB.seq:\* /cgn2\_6/ptodata/2/pubpna/U360\_NEM\_PUB.seq:\* /cgn2\_6/ptodata/2/pubpna/U360\_PUBCOMB.seq:\* otodata/2/pubpna/US09\_NEW\_PUB.seq:\*/ptodata/2/pubpna/US09\_PUBCOMB.seq: Published\_Applications\_NA: \* Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Sequence 6, Appll Sequence 752, Appl Sequence 154, Appl Sequence 47, Appl Sequence 11, Appl Sequence 12, Appl Sequence 235, Appl Sequence 235, Appl Sequence 235, Appl Sequence 517, App Sequence 121, App Sequence 23, Appl Sequence 32, Appl Sequence 9, Appli Sequence 104, App Sequence 105, App Sequence 67, Appl **Description** US-09-801-274-752 US-10-029-413A-25 US-09-801-274-94 US-09-943-722-47 SUMMARIES 80 Query Match Length Score 5.5 50.7 119.68 8.61.61 19.44.61 18.8 18.8 18.8 Result

	dv 'Tate aguanbac
US-09-840-277-107 US-09-666-108-15295 US-09-986-108-15295 US-09-981-842-8256 US-10-219-247-31 US-10-219-247-31 US-10-219-247-31 US-10-219-247-31 US-10-219-247-31 US-10-019-247-31 US-10-019-247-31 US-10-019-247-31 US-10-019-247-31 US-10-019-247-31 US-10-018-34-34 US-10-018-34-34 US-10-018-34-35 US-10-018-38-33 US-10-073-256-33 US-10-073-256-33 US-10-073-256-33 US-10-073-256-33 US-10-073-256-33 US-10-073-256-33 US-10-073-256-33 US-10-073-256-33 US-10-073-256-33 US-10-073-256-33	7
	•
<b>ᲠᲘᲥᲢᲥᲠᲝᲝᲗᲡᲥᲥᲥᲥᲥᲝᲝᲛᲚᲚᲥᲥᲥᲥᲥᲥᲥᲥᲥᲥᲥᲥᲥᲥᲥᲥᲥ</b>	•
	•
	?
01000000000000000000000000000000000000	:
0 00 0000	

## ALIGNMENTS

Sequence 6, Application US/10054444

Fatent No. US20020164342a1

GENERAL INCPRANTION:
APPLICANT: Guyze, Paul N.
APPLICANT: Goldstein, Joel
APPLICANT: Goldstein, Joel
APPLICANT: Sun, Wanwen
TITLE OF INVENTION: Recombinant Cat Allergen, Fel dI, Expressed in
TITLE OF INVENTION: Bollovicus for Diagnosis and Treatment of Cat Allergy
FILE REFERENCE: DC-0118
CURRENT APPLICATION WHORE: US/10/054,444
CURRENT FILING DATE: 2002-01-22
PRIOR FILING DATE: EARLIER FILING DATE: 1999-10-05

NUMBER: OF SEQ ID NOS: 6

SOFTWARE: Patentin Ver. 2.0

SEQ ID NO 6

LENTH: 48 Gaps ö FEATURE: STATURE: STATURE: Description of Artificial Sequence:Synthetic US-10-054-444-6 Ouery Match 1.2%; Score 21.8; DB 9; Length 48; Best Local Similarity 70.7%; Pred. No. 9.5e+03; Matches 29; Conservative 0; Mismatches 12; Indels TYPE: DNA ORGANISM: Artificial Sequence

962 AGAAGGTGCTACACCGAGACCTCAAGCCCCAGAACCTGCTC 1002 2 AGAACCICCICCACCAGAACCICCTCCACCAGAACCICCIC 42 RESULT 2
US-09-001-274-752
Sequence 752, Application US/09801274
Patent No. US20020032319A1
GENERAL INFORMATION:
APPLICANT: Cargill, Michelo
APPLICANT: Ireland, James S. ç 8

```
METHOD OF ELIMINATING INHIBITORY/INSTABILITY REGIONS OF MRNA
                                                                                                                                                                                                                                            Length 31;
                                                                                                                                                                                                                                          Score 21; DB 10;
Pred. No. 1.3e+04;
1; Wismatches 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/856,747
FILING DATE: 27-MAR-1992
CLASSIFICATION:
ATORNEY-AGENT INFORMATION:
NAME: MORKY, MARY J.
REGISTRATION NUMBER: 34,398
REFERENCE/DOCKET NUMBER: 2026-4006US1
TELECOMMUNICATION:
TELEPHONE: (212)759-4800
                                                                                                                                                                                                                                                                                                                                     577 GTCAGCCTATCTGAGATTGGCTTTGGGAAAC 607
  PRIOR APPLICATION NUMBER: US 60/206,129
PRIOR FILING DATE: 2000-05-22
NUMBER OF SEQ ID NOS: 1802
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 94
LENGTH: 31
                                                                                                                                                                                                                                                                                                                                                               CONTRY: USA
ZIP: 10154
ZIP: 10154
COMPOTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IEM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: GS/U9/943,722
FILLING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CLASSIFICATION:
PRIOR APPLICATION SAPE.
APPLICATION NUMBER: 08/850,049
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/050,478
FILING DATE: 26-0CT-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/02908
FILING DATE: 29-MAR-1993
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     S-09-943-722-47
Sequence 47, Application US/09943722
Publication No. US20020192660A1
GENERAL INFORMATION:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION: METHOD OF EL.
TITLE OF INVENTION: INHIBITORY/II
NUMBER OF SEQUENCES: 130
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEFAX: (212)751-6849
INPORMATION FOR SEQ ID NO: 47:
SEQUENCE CHARACTERISTICS:
LENGIH: 48 BASE PAIRS
                                                                                                                                                                                                                                          Query Match
Best Local Similarity 77.4%;
Matches 24; Conservative 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LENGTH: 48 BASE PAIR.
TYPE: NUCLEIC ACID
STRANDEDNESS: SINGLE
                                                                                                                                              TYPE: DNA
ORGANISM: Homo sapiens
US-09-801-274-94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE: 26
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 5
                                                                                                                                                                                                                                                                                                                                     ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICART: Malouf, Nadia
APPLICART: Michols, Timothy C.
TITLE OF INVENTION: Purified and Isolated Platelet Calcium Channel Nucleic Acids and
TITLE OF INVENTION: Pulfied and Therapeutic and Screening Methods Using Same
FILE REFERENCE: 421/29
CURRENT APPLICATION NUMBER: US/10/029,413A
CURRENT FILING DATE: 2002-03-21
NUMBER OF SEQ ID NOS: 29
                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                        Length 31;
APPLICANT: Lander, Eric S.
FILE REFERENCE: 2825.2009-001
CURRENT APPLICATION NUMBER: US/09/801,274
CURRENT FILING DATE: 2001-03-07
FRIOR APPLICATION NUMBER: US 60/187,510
PRIOR APPLICATION NUMBER: US 60/187,510
PRIOR PILING DATE: 2000-03-07
PRIOR FILING DATE: 2000-03-07
PRIOR FILING DATE: 2000-03-07
NUMBER OF SEQ 10 NOS: 1802
SOUTHARE: EsstSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ouery Match 1.2%; Score 21.4; DB 9; Length 45; Best Local Similarity 80.6%; Pred. No. 1.2e+04; Matches 25; Conservative 0; Mismatches 6; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Cargill, Michele
APPLICANT: Treland, James S.
APPLICANT: Lender, Eric S.
TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS
FILE REFERENCE: 2825, 2009-001
CURRENT APPLICATION NUMBER: US/09/801,274
CURRENT FILING DATE: 2001-03-07
                                                                                                                                                                                                                                                                                                                                                                                                Ouery Match 1.2%; Score 21.6; DB 10; Best Local Similarity 80.0%; Pred. No. 8.8e+03; Natches 24; Conservative 1; Mismatches 5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 979 GACCTCAAGCCCCAGAACCTGCTCATCAAC 1008
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2 GACATCAAGCCCCAKAACCTGCTGGTGGAC 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION NUMBER: US 60/187,510 PRIOR FILING DATE: 2000-03-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 25, Application US/10029413A
Patent No. US20020165353A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 94, Application US/09801274
Patent No. US20020032319A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOFTWARE: PatentIn version 3.1
SEQ 1D NO 25
LENGTH: 45
                                                                                                                                                                                                                                                                                                    TYPE: DNA
ORGANISM: Homo sapiens
US-09-801-274-752
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             HANE/KET: partial_cDNA (1)...(45) (10-029-413A-25) US-10-029-413A-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         δ
```

us-10-017-621-3.lim50.rnpb

ò ខ្ព

```
APPLICANT: Hood, Leroy E.
APPLICANT: Roven, Lee
APPLICANT: Roven, Lee
APPLICANT: Roven, Lee
TITLE OF INVENTION: DIAGNOSTIC AND THERAPEUTIC COMPOSITIONS AND NETHODS WHICH UNTHER OF SEQUENCES: 1279
CORRESPONDENCE ADDRESS:
ADDRESSEE: Seed and Berry LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
                                                                                                                                                                                                                              Gaps
           FEATURE:
GOTHER INFORMATION: Description of Artificial Sequence: synthetic
GOTHER INFORMATION: oligonucleotide used to insert codon between VH
GOTHER INFORMATION: and VL domains of NCIO sefv-0
GS-09-147-142-12
                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 40;
                                                                                                                                                                          Length 45;
                                                                                                                                                                                                                           15; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                       643 GGTACCTATGCCACCGTCTACAAAGGCAAAAGCAAGCTCACAGA 686
                                                                                                                                                                                                                                                                                                        45 GGGACCACGGTCACCGTGGTGATATCGAGCTCACACA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MELLON TIES. "C-Fr."
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/263,959
FILING DATE: 05-NAR-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Seed and Berry LLP
6300 Columbia Center, 701 Fifth Avenue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3; DB 10;
3e+04;
                                                                                                                                                                 Query Match 1.1%; Score 20; DB 10;
Best Local Similarity 65.9%; Pred. No. 2.8e+04;
Matches 29; Conservative 0; Mismatches 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pred. No. 3c+(
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1689 CTTCCCTGCTTACTCTCTGCCTACCTGCCTG 1719
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 19.8;
Pred. No. 3e
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATTORNEY/AGENT INFORMATION:
NAME: MCMS-ETES, David D.
REGISTARTION NUMBER: 33,963
REFERENCE/DOCKET NUMBER: 920010.426C2
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3 CTTCCTTCTTTCCTTCTTCCTGCCTG 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 758, Application US/09263959
Patent No. US20020150891A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 235, Application US/09790417
Patent No. US20010031470A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Bost Local Similarity 77.4%;
Matches 24; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEFAX: (206) 682-6031 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LENGTH: 40 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
APPLICANT: Shultz, John W
APPLICANT: Levis, Martin
APPLICANT: Lieppe, Donna
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COUNTRY: US
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; TOPOLOGY: linear
US-09-263-959-758
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (206)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Seattle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 9
US-09-790-417-235/C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEPHONE:
                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           à
                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: HUDGON, Peter John
APPLICANT: KORTT, Alex Andrew
APPLICANT: KORTT, Alex Andrew
APPLICANT: RONGT, Alex Andrew
APPLICANT: RIVELG, Robert Alexander
APPLICANT: AFFELGAT
APPLICANT: AFFELGATION: HIGH AVIDITY POLYVALENT AND POLYSPECIFIC REAGENTS
CURRENT APPLICATION HUMBER: US/09/147,142
CURRENT FILING DATE: 1999-03-05
EARLIER APPLICATION NUMBER: PCT/AU98/00212
BARLIER APPLICATION NUMBER: AU PO 5917
ERRIER APPLICATION NUMBER: AU PO 5917
ENERLIER CONTROL OF AUTHER AU PO 5917
ENERLIER CONTROL OF AUTHER AU PO 5917
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: HUDSON, Peter John
APPLICANT: HUDSON, Peter John
APPLICANT: KORTT, Alex Andrew
APPLICANT: RYNEL, Alex Andrew
APPLICANT: ATWELL, John Leslie
FILE OF INVENTION: HIGH AVIDITY POLIVALENT AND POLYSPECIFIC REAGENTS
FILE REFRENCE: 0167086/0212
CURRENT APPLICATION NUMBER: US/09/147,142
EARLER APPLICATION NUMBER: PCT/AU08/00212
EARLER FILING DATE: 1999-03-26
EARLER FILING DATE: 1999-03-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; OTHER INFORMATION: Description of Artificial Sequence: synthetic policy in NFORMATION: oligonucleotide used to insert codon between VH OTHER INFORMATION: and VL domains of NCIO scrv-0 US-09-147-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                         Query Match 1:2%; Score 20.4; DB 9; Length 48; Best Local Similarity 71:1%; Pred. No. 2:38+04; Matches 27; Conservative 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 45;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       15; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      643 GGTACCTATGCCACCGTCTACAAAGGCAAAAGCAAGCTCACAGA 686
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 GGGACCACGGTCACCGGTGGTGATATCGAGCTCACACA 44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 1.1%; Score 20; DB 10;
Best Local Similarity 65.9%; Pred. No. 2.8e+04;
Matches 29; Conservative 0: Mismatches 15;
                                                                                                                                                                             325 GAGATIGTGCACGAGGACTTGAAGATGGGGTCTGATGG 362
                                                                                                                                                                                                                   7 GAGACGGTGCCCGTGAAGTTGAAGCCGGGGATGGATGG 44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EARLIER APPLICATION NUMBER: AU PO 5917
EARLIER FILING DATE: 1997-03-27
NUMBER OF SEQ ID NOS: 32
                                                                                                                                                                                                                                                                                                                                                                     ; Sequence 11, Application US/09147142
; Patent No. US20020018749a1
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 12, Application US/09147142
Patent No. US20020018749A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Patentin Ver.
  LINEAR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    -09-147-142-12/c
, TOPOLOGY:
US-09-943-722-47
```

SEQ ID NO 1]

FEATURE:

ò g ö

TYPE: DNA

```
1288 ATCCTGTCCAACGAGGAGTTCAAGACATACAACTACCCCAAGTAC 1332
                                                                                                                                                                                                                                                                                                                                                                                                 ADDRESSEE: Seed and Berry LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
FILE REFERENCE: 19124.0002
CURRENT APPLICATION NUMBER: US/10/073,256
CURRENT FILING DATE: 2002-02-13
NUMBER OF SEQ ID NOS: 80
SOFTWARE: Patentin version 3.1
SEQ ID NO 35
LENGTH: 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1190 CCACAGGCCGTCCCTTTTCCGGGC 1215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 121, Application US/09263959
Patent No. US20020150891A1
GENERAL INFORMATION:
                                                                                                                                                                          ; TYPE: DNA
; ORGANISM: Enterococcus faecalis
US-10-073-256-35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ZIP: 98104-77092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-801-274-517
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CITY: Seattle
STATE: Washington
COUNTRY: US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 13
US-09-263-959-121/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                         οχ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           윱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          S-10-013-256-27/C
S-20-013-256-27/C
Sequence 27, Application US/10073256
Patent No. US20020120408A1
GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
TITLE OF INVENTION: System and Method for Tracking and Controlling Infections
TITLE OF INVENTION: System and Method for Tracking and Controlling Infections
CURRENT APPLICATION WURBER: 2002-02-13
WUMBER OF SEQ ID MOS: 80
SOFTWARE: PATENTIN version 3.1
SED ID NO 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 35, Application US/10073256
Patent No. US2002012040Bal
GENERAL INFORMATION:
APPLICART: Neiswith, Barry N
APPLICANT: Nadich, Steven M
TILE OF INVENTION: System and Method for Tracking and Controlling Infections
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURE:
7 OTHER INFORMATION: Description of Artificial Sequence:probe for oligo
1. OTHER INFORMATION: 54
US-09-790-417-235
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ouery Match 1.14; Score 19.6; DB 10; Length 42; Best Local Similarity 66.74; Pred. No. 3.5+10; Matches 28; Conservative 0; Mismatches 14; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ouery Match 1.14; Score 19.4; DB 12; Length 45; Best Local Similarity 64.44; Pred. No. 4.1e+04; Matches 29; Conservative 0; Mismatches 16; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1288 ATCCTGTCCAACGAGGAGTTCAAGACATACAACTACCCCAAGTAC 1332
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   759 GTCCCTGCTCAAGGACCTCAAACACGCCAACATCGTTACGCT 800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: 01507, Kyan J.
APPLICANT: Nood, Keith W.
APPLICANT: Nood, Keith W.
APPLICANT: Nood, Keith W.
APPLICANT: Nood, Keith W.
FILE OF INVENTION: Nucleic Acid Detection
FILE RFERRENCE: PO-103 6868/7528
CURRENT APPLICATION NUMBER: 05/38,972
PRIOR APPLICATION NUMBER: 09/38,972
PRIOR PILING DATE: 1999-07-21
PRIOR PILING DATE: 1999-07-21
PRIOR PILING DATE: 1998-03-13
NUMBER OF SED ID NOS: 290
SOFTWARE: Patentin Ver. 2.0
SOFTWARE: Patentin Ver. 2.0
                        Kephart, Daniel
Rhodes, Richard B.
Andrews, Christine A.
Hartnett, James R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; TYPE: DNA
; ORGANISM: Enterococcus faecalls
US-10-073-256-27
     Mandrekar, Michelle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                         Gu, Trent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 11
US-10-073-256-35/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ð
```

```
APPLICANT: Nodel, Leroy E.
APPLICANT: Nodel, Lee
APPLICANT: Nowen, Lee
TITLE OF INVENTION: DIAGNOSTIC AND THERAPEUTIC COMPOSITIONS AND METHODS WHICH UNWESTROY SEQUENCES: 1279
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 1.1%; Score 19.2; DB 10; Length 31; Best Local Similarity 80.8%; Pred. No. 3.9e+04; Matches 21; Conservative 1; Mismatches 4; Indels (
Query Match 1.1%; Score 19.4; DB 12; Length 45; Best Local Similarity 64.4%; Pred. No. 4.1e+04; Matches 29; Conservative 0; Mismatches 16; Indels
                                                                                                                                                                                                                                                                                                                                                                                                    GS-09-801-274-517

Sequence 517, Application US/09801274

Sequence 517, Application US/09801274

Sequence 517, Application US/09801274

Sequence 517, Application US/09801274

GENERAL INFORMATION: Anthele

APPLICANT: Ireland, James S.

APPLICANT: Ireland, James S.

TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS

FILE REPERENCE: 2825.2009-0015

CURRENT PILING DATE: 2001-03-07

PRIOR APPLICATION NUMBER: US 60/187,510

PRIOR APPLICATION NUMBER: US 60/206,129

PRIOR PLING DATE: 2000-03-07

PRIOR FILING DATE: 2000-03-07

PRIOR PLILING DATE: 2000-03-07

PRIOR FILING DATE: 2000-03-07

SOFTWARE FILING DATE: 2000-03-07

SOFTWARE FILING DATE: 2000-03-07

SOFTWARE FILING DATE: ANTHORNER US 60/206,129

SOFTWARE FILING DATE: ANTHORNER US 60/206,129

SOFTWARE FILING DATE: ANTHORNER US 60/206,129

SEGO ID NOS: 1802

SEGO ID NOS: RALIGADATE ANTHORNER US 60/206,129

SEGO ID NOS: LEGGEN WINDOWS VERSION 4.0
```

```
Search completed: Narch 4, 2003, 00:54:25
Job time : 134 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gapa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Conner, Timothy W
APPLICANT: Santino, Colleen G
TITLE OF INVENTION: No. 0250020192813Alel Plant Expression Vectors
FILE REFERENCE: monocot elements
CURRENT APPLICATION NUMBER: US/09/376,940A
CURRENT FILING DATE: 1999-08-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; OTHER INFORMATION: Description of Artificial Sequence:synthetic US-09-376-940-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 46;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 1.1%; Score 19; DB 9; Length 43; Best Local Similarity 65.1%; Pred. No. 5.1e+04; Matches 28; Conservative 0; Mismatches 15; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            OPERATING SYSTEM: PC-DGS/MS-DOS
SOFTWARE: Ratentin Release #1.0, Version #1.25
CURRENT APPLICATION DATE:
PEDLICATION NUMBER: US/09/263,959
FILING DATE: 05-MAR-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 19.2; DB 10
Pred. No. 4.7e+04;
0; Mismatches B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Shuping Tong et al.
TITLE OF INVENTION: HEPADNAVIRUS RECEPTOR
NUMBER OF SEQUENCES: 75
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADDRESSEE: Fish & Richardson P.C. STREET: 225 Franklin Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      319 GCACCAGAGATTGTGCACGAGGACTTGAAGAT 350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  46 GCACCAGAGTTTCTGCACAGGGGGGGGGAGT 15
                                                                                                            CLASSIFICATION:
ATTORNET/AGENT INFORMATION:
NAME: MCMASTers, David D.
REGISTRATION NUMBER: 33,963
REFENCE/DOCKET NUMBER: 920010.426C2
TELECOMMONICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EARLIER APPLICATION NUMBER: 60/097150
EARLIER FILING DATE: 1998-08-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 23, Application US/09376940A Publication No. US20020192813A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 32, Application US/09818066 Patent No. US20020032307A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                  TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FON SEQ ID NO: 123
SEQUENCE CHRRACTERISTICS:
LENGTH: 46 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 75.0%;
Matches 24; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQ ID NOS: 63
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 23
                                                                                                                                                                                                                                                                                                                                                                       TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-263-959-121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     09-818-066-32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               õ
```

```
Length 45;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 19; DB 10; Length 45
Pred. No. 5.2e+04;
0; Mismatches 10; Indels
                                         COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS OPERATING SYSTEM: PC-DOS/MS-DOS CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                     NAME: Fraser, Janis K.
REGISTRAITON NUMBER: 31,819
REFERENCE/DOCKET WUMBER: 00786/287002
TELECOMUNICATION INFORMATION:
TELEPHONE: (617) 542-5070
TELEPHAX: (617) 542-906
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1343 CCCTTTTGAGCCACGCACCCCGACTTGATAGCGAC 1377
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2 CCCTTTTGAGCCACGAATTCCAGGATGAAACAGAC 36
                                                                                                                            APPLICATION NUMBER: US/09/818,066
FILING DATE: 27-Mar-2001
CLASSIFICATION - CUNKNOWN>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/683,262
FILING DATE: 18-JUL-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 32:
US-09-818-066-32
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                              ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LENGTH: 45 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEX: 200154
INFORMATION FOR SEQ ID NO: 32:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Best Local Similarity 71.4
Matches 25; Conservative
```

AU105237 AU105237 BM293711 S009-0-35 AZ311363 ZW0279513 AZ311363 ZW026F16 AU106960 AU106960 AZ31136 ZW0268F01 AZ985975 ZW0268F01 AZ04601 MU25C05.r

HHII1451 SALK 0586
W33000 & 2029b05.r1
A42450961 HM0250B05
AU103359 AU103157
AU103359 AU103359
AU103359 AU103359
AU103359 AU103359
AU103359 AU103361
AU103381 AU103381
AU103381 AU103915
AU103381 AU103915
AU103381 AU103915
AU103381 AU103381
AU103381 AU103915
AU103381 AU103381
AU103383 AU1033839
AU103383 AU1033839
AU103383 AU1033839

AU103583 AU103583 AU104587 AU104587 AU105918 AU105918 AL473116 T. bruce1 AL250043 9x48£02.x AZ966392 2M0236820

AU103382 AU103382 AU103553 AU103553 AU104162 AU104162 BI910989 603069394

Title: Perfect score: Sequence:

nucleic

.. 0

Run 8

Scoring table:

Searched:

Database

```
E. Homo saplens
Eutheria: Primates; Craniata; Vertebrate; Euteleostcmi;
Eutheria: Primates; Catarrhin; Hominidae; Homo.

Nammalla: Eutheria: Primates; Catarrhin; Hominidae; Homo.

H. Hiller,L. Lennon,G., Becker,M., Bonaldo,M.F., Chlapelli,B.,

Chissoe,S., Dietrich,N., DuBuquer,T., Pavello,A., Gish,M., Hawkins,M., Hultman,M., Kucaba,T., Lacy,M., Le,M., Le,N., Mardis,E., Moore,B., Moorie,M., Moore,B., Moore,B., Moorie,M., Moore,B., Moorie,M., Moore,B., Moorie,M., Moore,B., Moorie,M., Moore,B., Moorie,M., Moore,B., Moorie,M., Markin,L., Rohlfing,T.,

Generation and analysis of 280,000 human expressed sequence tags

E. Genome Res. 6 (9), 807-828 (1996)
                                                                                                                                                                                                                                                                                                                                                                  46.bp mRNA linear EST 28-JAN-1997 yv71g05.tl Scares fetal liver spleen INFLS Homo sapiens cDNA clone INAGE: 248216 5' similar to gb: x66363 SERINE/THREONINE-PROTEIN NT8054 NT8054.1 GI:1240755 SETAIRE STREAM SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Washington University School of Medicine
444 Forest Park Parkway, Box 9501, St. Louis, NO 63108
Tel: 314 286 1800
Fax: 314 286 1810
                                                                                                                                                                                                                                                                                                                                          ALIGNMENTS
                                                                                                                                                                                                                BH857,724
BH790015
AU102939
AU104587
AU104587
AU105918
TA165G05Q
                                                                                                                                                                                                                                                                                A2966392
AU103382
AU103553
AU104162
BI910989
             estewatson.wustl.edu
                                                                                              Contact: Wilson RK
Fax: 31
Email:
                                                                                                                                                                                                                                                                                                                                                                                                                                           human.
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                         DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE
JOURNAL
MEDLINE
COMMENT
                                                                                                                                                                                                                                                                                                                                                                RESULT 1
N78054
υu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       N78054 yv71905.r1
R38968 yd07c08.s1
AW247978 2819657.5
AU107934 AU107934
AZ346286 1M0081C01
AU102877 AU102877
                                                 March 3, 2003, 22:34:05 ; Search time 2628 Seconds (Without alignments) 10753.853 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Prod. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                     1 tggaagcagcgtaaaggatg.......gttcacctgcccacttgtcc 1745
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Description
      GenCore version 5.1.4_p5_4578
Copyright (c) 1993 - 2003 Compugen Ltd.
                                                                                                                                             16154066 segs, 8097743376 residues
                                                                                                                                                            Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SUMMARIES
                                                                                                                                                                                                    Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                      - nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        N78054
R38968
AW247978
AU107934
AZ346286
AU102877
                                                                                                                     IDENTITY_NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                em_gss_mam:*
em_gss_mus:*
em_gss_other:*
em_gss_pro:*
em_gss_rod:*
                                                                                                                                                                                                                                                                                                                                              gb_est4:*
gb_est5:*
em_estcm:*
gb_gss:*
em_gss_hum:*
em_gss_hum:*
em_gss_hum:*
em_gss_hum:*
em_gss_hum:*
em_gss_hum:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         440040
                                                                                                                                                                                                                                              em_estba:*
em_esthum:*
em_esthu:*
em_estov:*
em_estol:*
em_estpl:*
em_estro:*
em_ttc:*
gb_estl:*
                                                                                   US-10-017-621-3
1745
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        80
                                                                                                                                                                                                                                                                                                                        gb_est2:*
gb_htc:*
                                                                                                                                                                                                                                                                                                                                       gb_est3:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         200888
                                                                                                                                                                             Minimum DB seq length: 0 Maximum DB seq length: 50
                                                                                                                                                                                                                                       EST: .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query
Match
```

Score

Š Result

45 23.2 21.4 21.2 21.2

us-10-017-621-3.lim50.rst

```
/db_xref-"taxon:9606"
/clone-"IMAGE:25073"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            VERSION
REYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 3
AW247978
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ä
                                                                                                                                                                                                                                                                                                                                                                                    Email: estévatson.wustl.edu
insert Size: 1349
High quality sequence starts: 1 High quality sequence stops: 1
Source: IMAGE Consortium, LLNL This clone is available royalty-free
through LLNL. contect the IMAGE Consortium (infoélmage.llnl.gov)
for further information. Trace considered overall poor quality
Insert Length: 1349 Std Error: 0.00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ### PG7818 | FROM THE HOME OF THE PROPERTY STANDS OF THE PROPERTY THREONINE-PROPERTY KINASE PROPERTY (HUMAN);, MRNA SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens

Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;

Rammalia; Eutheria; Primates; Catarrhin; Hominidae; Homo.

1 (bases 1 to 26)

1 (bases 1 to 26)

1 (bases 1 to 27)

1 (bases 1 to 28)

2 (bases 1 to 28)

1 (bases 1 to 28)

2 (bases 1 to 28)

3 (bases 1 to 28)

3 (bases 1 to 28)

4 (bases 1 to 28)

2 (bases 1 to 28)

3 (bases 1 to 28)

3 (bases 1 to 28)

4 (bas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ó
This clone is available royalty-free through LLNL; contact the INAB Consortlum (info@image) llnl.gov) for further information. INAB Consortlum (info@image) poor quality Insert Length: 1438 Std Brror: 0.00 Seq primer: reverse ET High quality sequence stop: 1. Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ..
o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Washington University School of Medicine
A44 Forest Park Parkway, Box 8501, St. Louis, NO 63108
Tel: 314 286 1800
Eax: 314 286 1810
                                                                                                                                                                                                            1. .46
./organism="Homo sapiens"
./organism="Homo sapiens"
./db_xref="taxon:9606"
./clone="IMAGE:248216"
./clone="IMAGE:248216"
./clone_lib="Soares fetal liver spleen lNFLS"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 2.6%; Score 45; DB 14; Length 46; Best Local Similarity 97.8%; Pred. No. 0.78; Matches 45; Conservative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            QY 1700 ACTCTCTGCCTACCTGCCTGAGCCATGTTCACCTGCCCACTTGTCC 1745
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 ACTCTCTGCCTACCNGCCTGAGCCATGTTCACCTGCCCACTTGTCC 46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Insert Length: 1349 Std Erro
Seg primer: -21m13
High quality sequence stop: 1.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         R38968.1 GI:796424
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 2
R38968/c
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACCESSION
VERSION
REYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURES
                                                                                                                                                                                        FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 윱
```

```
Contact: Robort Strausberg, Ph.D.

Email: cgapbs-rémail.nih.gov.Dh.D.

Email: cgapbs-rémail.nih.gov.Dh.D.

Tissue Procurement: DCTD/OTP CDNA Library Preparation: Ling
Tissue Procurement: DCTD/OTP CDNA Library Arrayed by: The I.M.A.G.E.

Consortium (LINI) DNA Sequencing by: Berkeley MGC Sequencing
project Clone distribution: MGC clone distribution information can
be found through the I.M.A.G.E. Consortium/LUMI at:

www.blo.lini.gov.Dbsp/image/Amage.Amage had Base Calling / Quality
Scores: PHRED from University of Washingtion Genome Center
PHRAP suiter Poly-T Identification: pathwach.pl from Berkeley
Drosophila Genome Project. University of Washingtion Genome Center
PHRPD ligh quality bases following vector sequence: 8 contiguous
PHRED high quality bases following vector sequence. Very Low
Quality Sequence: Trace file contained 48 contiguous distinct peaks
following vector sequence.

Plate: LLCAZ row: C column: 18
High quality sequence stop: 8.

Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                     AW347978 48 bp mRNA linear EST 07-JAN-2000
2819657.5prime NIH_MGC_7 Home sapiens cDNA clone IMAGE:2819657 5',
                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi, Mammala, Butheria, Primates, Catarrhini, Hominidae, Romo.

I (bases 1 to 40 Mg. nci.nih.gov/.

NIH MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Oppublished (1999)
Other_ESTs: 2819657.3prime
                                                                  Gaps
                                                                  ô
   Length 28;
ch 1.6%; Score 28; DB.14; Length 28
il Similarity 100.0%; Pred. No. 9.1e+03;
28; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /clone='IMAGE:2819657*
/clone_lib='NIE_WGC_7*
/clsue_type='small cell carcinoma'
/cell_line='MGC3'
/lab_host='DH10B (phage-resistant)'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1. .48
/organism="Homo sapiens"
/db_xref="taxon:9606"
                                                                                                                              MRNA sequence.
AW247976
AW247978.1 GI:6591066
```

```
/dax="Mail of the coll strain XL10-Gold, T1-resistant, F-"
/dab_host="B."
/dote="Vector: PWH942ny; Purified genomic DNA from.N.
musculus C578L/6V (male) was obtained from the Jackson
Laboratory Nouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was short end-repaired with T4 DNA polymerase and T4
polynuclectide kinase. Adaptor ollgonuclectides were
ligated to the blunt ends in high molar excess. The
adaptored DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWH2 (gil4732114)gpl/R129072.1), a copy-number
induchibe derivative of plasmid R1. The vector was ligated
whith adaptors complementary to the insert adaptors and
purified. The sheared, adaptored mouse DNA was annealed to
adaptored vector DNA, and transformed into
chemically-competent E. coll XL10-Gold (Stratagene) cells
and solected for ampicilin resistance."
                                                                                                                                                                                                                                                                                                                                      Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 306, Blomedical Polymers Research Bldg., 20 S. 2030 E., SLC, OT
84112, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AU102877 ... SOUR SAPLENS CONA LIBRAR TOMO SAPLENS CONA CLONE COLO3075, MRNA Sequence.
                                                                                                                          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostoml; Mamala; Eutheria; Rodentia; Sclurognathi; Muridae; Murinae; Mus I (bases 1 to 36)

Dunn,D., Aoyagi,A., Barber,H., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,M., Rose,M., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D., Weiss,R.
                                                                                                                                                                                                                                                                               Nouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 1.2%; Score 21.2; DB 17; Length 36; Best Local Similarity 76.5%; Pred. No. 4.8e+05; Matches 26; Conservative 0; Mismatches 8; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                    8411.20 USA
Tel: 601.585 5606
Fax: 601.585 5606
Fax: 601.585 7177
Email: ddunnegenetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Flate: 0081 row: C column: 01
Seg primer: CACACAGAAACAGCTATGACC
Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      212 AGATAGGCCTGGATGAGAGTGGTGGTGGTGGCGG 245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 AGATITCICTGCCTGAGIGTGGTGGTGGTGGTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             High quality sequence stop: 36.
             AZ346286.1 GI:10425619
                                                                                                        Mus musculus
                                                                                      house mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       a
a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 6
AU102877
LOCUS
DEFINITION
                                                                                SOURCE
          ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BASE COUNT
ORIGIN
                                                                                                                                                                         REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                      JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURES
                                                                                                                                                                                                                                                                                            TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Eukaryota: Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia: Eutheria: Primates; Catarrhini; Hominidae; Homo.

1 (Dases 1 to 50)
Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata,Y., Ota,T., Isogal,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki,Y., Nakamura,Y., Suyama,A. and Sugano,S.
Dliverse transcriptional initiation revealed by fine, large-scale EMBO Rep. 2 (5), 188-193 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Emali: ysuzukians.-tokyo.ac.jp
Suzuki.Y., Yoshitomo-Nakagawa.K., Maruyama.K., Suyama,A. and Sugano
,S. Construction and characterization of a full length-enriched and
a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AU107934 Sugano Homo sapiens CDNA library Homo sapiens CDNA clone HST01115, mRNA sequence.
                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GSS 29-SEP-2000
/note="Organ: lung; Vector: pOTB7; Site_1: XhoI; Site_2: ECORI; CDNA made by oligo-dT priming. Directionally cloned into Ecori/XhoI sites using the following 5' adaptor: GCCACGAG(G). Size-selected >500bp for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-CDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies)."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A2346286

1M0081C01R Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0081C01 R, DNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          //organism="Homo saplens"
/db_xref="taxon:9606"
/clone="H8101159"
/note="blfferential display comparison of untreated and dimethylfumarate treated U937 cells"

9 c 25 g 9 t
                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                  Length 48;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 1.2%; Score 21.4; DB 9; Length 50; Best Local Similarity 80.6%; Pred No. 5.18+05; Matches 25; Conservative 0; Mismatches 6; Indels
                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                             Ouery Match 1.3%; Score 23.2; DB 10; Best Local Similarity 77.8%; Pred. No. 1.88+05; Matches 28; Conservative 0; Mismatches 9
                                                                                                                                                                                                                                                                                                                                                AU107934
AU107934.1 GI:13557456
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Contact: Yutaka Suzuki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Romo sapiens
                                                                                                                                                                                         :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 5
AZ346286
LOCUS
DEFINITION
                                                                                                                                                                                      BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             JOURNAL
MEDLINE
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AU107934
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE
                                                                                                                                                                                                                                                                                                                                                      ô
                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     윱
```

Gaps

ö

Length 50; 5; Indels

```
BM397711 50 bp mRNA linear EST 17-JAN-2002 5009-0-35-H11.t.2 Chilcoat/Turkewitz cDNA (large fraction) Tetrahymena thermophila cDNA, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A2993993 46 bp DNA linear GSS 27-APR-2001
2M02799R33F Mouse 10kb plasmid UUGC2M library Nus musculus genomic
clone UUGC2M0279E13 F, DNA sequence.
A2993993 G:13865220
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Alveolata; Cillophora; Oligohymenophorea;
Hymenostomatida; Tetrahymenina; Tetrahymena.
I (bases it o50)
Turkewitz, A.P., Karrer, K.N., Jahn, C., Orias, E., Kirk, K.E., Frankel
'J. and Klobutcher, L.
EST from Tetrahymena thermophila, strain CU428.1, growing cells
Onbublished (2002)
Contact: Turkewitz AP
Molecular Genetics and Cell Biology
University of Chicago, IL 60637, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /db_xref="taxon:5911"
/clone_lib="Chilcoat/Turkewitz cDNA (large fraction)"
/clone_lib="Chilcoat/Turkewitz cDNA (large fraction)"
/note="Vector: BlueScript2 SR+; Details on library
preparation can be found in Chilcoat and Turkewitz (2001)
Proc. Natl. Acad. Sci UGA, 98: 8709-8713."
                                                                  ch 1.2%; Score 21; DB 13; Length 50 ll Similarity 60.0%; Pred. No. 6.3e+05; 27; Conservative 0; Mismatches 18; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       82 CCCCGCGCGCTCTGAGGTTGCTCGCGCCCCCCCCCCGATCGCCATG 126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   50 CCCGCGGACTCCCAGCTTGTCCCNCNNNNNNCGCTCTCCCTG 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /organism="Tetrahymena thermophila"
/etrain="CU428.1"
                                                                                                                                                                                                             ch 1.2%; Score 21; DB 9; L
11 Similarity 82.8%; Pred. No. 6.3e+05;
24; Conservative 0; Mismatches 5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Tel: 773 702 4374
Fax: 773 702 3172
Email: apturkewemidway.uchicago.edu
     /organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="HRC08919"
                                                                                                                                                                                                                                                                                                         558 CAGCCGCCGCCTCGTGTCAGCCTAT 586
                                                                                                                                                                                                                                                                                                                                   35 CAGCTGCCGCCGCATCCTGTCCGCCTAT 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Seg primer: T3.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Tetrahymena thermophila. Tetrahymena thermophila
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BM397711.1 GI:18197764
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 house mouse
                                                                                                                                             13 a
                                                                                                                                                                                                             Query Match
Best Local Si
Matches 24,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                            BM397711/c
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 9
AZ993993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             VERSION
KETWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURES
                                                                                                                                                                                                                                                                                                            ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                           Eukaryota: Morazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 50)

Suzuki,Y., Teira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata,H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki,Y., Y., Nakmura,Y., Suyama,A. and Sugano,S.
Diverse transcriptional initiation revealed by fine, large-scale mapping of mana start sites

EMBO REP. 2 (5), 388-393 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Suzuki,Y., Yoshiromo-Nakagawa,R., Maruyama,R., Suyama,A. and Sugano
S. Construction and characterization of a full length-enriched and
a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
1.-50
                                                                                                                                                                                                                                                                                                                                                                          Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
4-6-1, Shirokanedai, Winatoku, Tokyo 108-8639, Japan
Emali: ysuzuki@lama.u.kokyo.ac.jp
Suzuki.Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Sugano
,S. Construction and characterization of a full length-enriched and
a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mamalialia Eukherita; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 50)
Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata,H., Godf.T., Taogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki,Y., Na Nakamura,T., Suyama,A. and Sugano,S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /clone_lib-"Sugano Homo sapiens cDNA library"
/note-"Differential display comparison of untreated and dimbthylfumarate treated U937 cells"
1 20 10 9 9 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 50;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           S; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1.24; Score 21; DB 9; I Best Local Similarity 82.84; Pred. No. 6.3e+05; Matches 24; Conservative 0; Mismatches 5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1. .50
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="COL03075"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 mapping of mRNA start sites
EMBO Rep. 2 (5), 388-393 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       491 ACATCGGCTGCCTGAGGCTACCTGGAG 519
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 ACATCCAGCTGCCTGAGACCTTCCTGCAG 29
     AU102877
AU102877.1 GI:13552398
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    HRC08919, mRNA sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AU105237
AU105237,1 GI:13554758
                                                                                                                                                                                                                                                                                                                                                  Contact: Yutaka Suzuki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Contact: Yutaka Suzuki
                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A0105237
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21270072
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   human.
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AU105237/c
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                  JOURNAL
MEDLINE
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                JOURNAL
MEDLINE
COMMENT
                                                                                                                                                               REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURES
                                                                                                                                                                                                                                                           TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE
```

Gaps

ö

Length 50;

```
/organiam="Mus musculus"
/strain="CSTBL/GJ"
/db_xref="taxon:10090"
/db_xref="taxon:10090"
/clone="lb="wouse lokb plasmid UUGCIM Library"
/sex="Male"
/lab_nost="E. Coli strain XLI0-Gold, Tl-resistant, F-"
/lab_nost="E. Coli strain XLI0-Gold, Tl-resistant, F-"
/note="weatcor: PWD22vv; Purified genomic DMn from M.
musculus C57BL/GJ (male) was obtained from the Jackson
Laboratory Wouse DNn Resource down the Jackson
Laboratory Wouse DNn Resource down the Jackson
Laboratory Wouse DNn Resource down the Jackson
(http://www.jax.org/resources/documents/dnares/). The DNn
was blunt end repaired with 74 DNn polymerase and T4
was blunt end-repaired with 74 DNn polymerase and T4
polymucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar access. The
adaptored onk was purified and size-selected for a 9.5 to
10.5 kb range using preparative agraces gel
electrophoracesis. Vactor DNN was prepared from a derivative
of pWD42 (gil473114)gplRe129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptored mouse DNA was annealed to
chemically-competent E. coll XLI0-Gold (Stratagene) cells
and selected for ampicillin resistance."
                                                                                                                                                                                                                                                                                                                                                                                                    Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AU106960 Sugano Homo saplens CDNA library Homo saplens CDNA clone CASO9689, mRNA sequence.
AU106960 GI:13556481
                                       Eukaryota, Metazoa, Chordata, Cranlata, Vertebrata, Euteleostomi.
Mammala, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Musil.
(bases 1 to 48)
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
Islam, H., Longacze, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly
M., Rose, M., Rose, M., Stokes, R., Stokes, R., Tingey, A., von Niederhausern, A.,
Musikh, D., Weiss, R.
Poplanid inserts
Unphished (2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 1.2%; Score 20.6; DB 17; Length 48; Best Local Similarity 67.4%; Pred. No. 7.8e+05; Matches 29; Conservative 0; Mismatches 14; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        OY 1499 CTACTTCCATATTTGCACTAAAGGAGATTCAGCTACAAAAGGA 1541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0026 row: F column: 16
Seg primer: CACACAGGAAACAGCTATGACC
Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                High quality sequence stop: 48. Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              rel: 801 585 5606
Fax: 801 585 7177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ÚSĀ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 11
AU106960/c
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BASE COUNT
ORIGIN
           ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                            JOURNAL
                                                                                                              REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURES
                                                                                                                                                                                                                                                                                             TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /dax_remine.
//dax_remine.
//d
                                                                                                                                                                                                                                                                                                                                                Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Em. 1908, Blomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GSS 29-SEP-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               chemically-competent E. coli XLIO-Gold (Stratagene) cells and selected for ampicallin resistance."

0 23 9 15 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A2311362

48 bp DNA linear GSS 29-SEP-200
1M0026F16R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC1M0026F16 R, DNA sequence.
A2311362
A2311362.1 GI:10354248
GSS.
bouse mouse.
Hus musculus
Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalla; Eutheria; Rodentla; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 46)
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly
AM, Rose, M., Rose, M., Stokes, R., Stokes, R., Tingey, A., von Niederhausern, A.
and Wright, D., Welss, R.
                                                                                                                                                                                                                                                                 Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /organism-"Nus musculus"
/strain-"C57BL/6J"
/db_xref-"taxon:10090"
/clone-"UUGC2M0279E13"
/schoe_11b-"Mouse lOkb plasmid UUGC2M library"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 1.24; Score 20.8; DB 17; Length 46; Best Local Similarity 70.04; Pred. No. 6.8e+05; Matches 28; Conservative 0; Mismatches 12; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        223 GATGAGAGTGGTGGTGGCGGCAGTGACCCTGGAGAGG 262
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0279 row: E column: 13
Seg primer: CGTGCTAAAGGACGCCCAGT
Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        High quality sequence stop: 46. Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Tel: 801 585 5606
Fax: 801 585 7177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Bource
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LOCUS
DEFINITION
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                   REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 10
A2311362
                                                                                                                                                                                                                                                                                                                                                JOURNAL
                                                                                                                                                                                                                                                                             TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURES
                                                                                                                                                                                                                                                                                                                                                                                    COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORIGIN
```

Gapa ö

> õ g

Z.

```
/Bak-TABLE.
/Jab_Note-"vector: PMyd2nv, Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with 74 DNA polymerase and T4
polynuclectide kinase. Adaptor ollgonuclectides were
ligated to the blunt ends in high molar excess. The
adaptored DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWHA2 (gi|4732114|gb|A7129072.1), a copy-number
induchbe derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The shared, adaptored mouse DNA was annealed to
adaptored vector DNA, and transformed into
chemically-competent E. coli XLIO-Gold (Stratagene) cells
and selected for mapicillin resistance."
                                                                                                                                                                                                                               /clone_lib="Mouse lokb plasmid UUGCIM library"
                                                                                                                                                   /db_xref="taxon:10090"
/clone="UUGC1M0059H04"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunnêgenet
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                house mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     n. 308,
1112, US
                Bource
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 13
AZ985975
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REPERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             à
                                Eukaryota, Metazoa, Chordata, Craniata, Vertchrata, Eutcleostomi, Nammalia, Butheria, Primates; Catarrhini, Hominidae, Homo.

1 (Abs. 1 to 50)

Suzuki, Y., Taira, H., Tsunoda, T., Mizushima-Sugano, J., Sese, J., Hata, H., Ora, T., Isogai, T., Tanaka, T., Morishita, S., Okubo, K., Sakaki, Y., Yamanura, A. and Sugano, S., Okubo, K., Sakaki, Y., Nakamura, Y., Suyama, A. and Sugano, S., Okubo, K., Sakaki, Juyerse transcriptional initiation revealed by fine, large-scale EMBO Rep. 2 (5), 388-393 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shizokanedai, Minatoku, Tokyo 108-8639, Japan
Bmail: ysuzuki@ins.u-tokyo.ac.jp
Suzuki,Y., Yoshitomo-Nakagava,K., Maruyama,K., Suyama,A. and Sugano,S. Construction and characterization of a full length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AZ331536

47 bp DNA linear GSS 29-SEP-2000 1M0059H04R Mouse 10Xb plasmid UUGCIM library Mus musculus genomic clone UUGCIM0059H04 R, DNA sequence.
AZ331536

AZ331536.1 GI:10394326
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Biomcdical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Joseph J. 150

/organism="Homo sapiens"
/organism="taxon:9606"
/d.one="faxon:9606"
/clone=lib="syapon dumo sapiens cDNA library"
/orde="libe"syapon dumo sapiens cDNA library cDNA li
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalla; Butheria; Rodentla; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 47)

Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Neenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,M., Sose,M., Sose,M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ouery Match 1.2%; Score 20.6; DB 9; Length 50; Best Local Similarity 74.3%; Pred. No. 7.98+05; Pset05; Matches 26; Conservative 0; Mismatches 9; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ddunnegenetics.utah.edu
Length: 10000 Std Error: 0.00
0059 row: H column: 04
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   922 CTGTTCCAGCTCCGTGGCCTGGCCTACTGCCA 956
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    43 CTTTCCCAGCTGCGCCATGGCCGCGCTGCCGCAA 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Plate: 0059 row: H column: 04
Seq primer: CACACAGGAAACAGCTATGACC
Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Unpublished (2000)
Context: Robert B. Weiss
University of Utah Genome Center
University of Utah
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         High quality sequence stop: 47. Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Contact: Yutaka Suzuki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Tel: 801 585 5606
Fax: 801 585 7177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           house mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 7 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               nsert
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ema 11:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 12
A2331536/c
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        VERSION
KETWORDS
SOURCE
ORGANISM
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                   JOURNAL
MEDLINE
CONMENT
                                                                                                                                             REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURES
                                                                                                                                                                                                                                                                                                                                            TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE
```

ð 셤

```
Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
                                                                                                                                                                                                                                                                                                                                                    A2985975 45 bp DNA linear GSS 27-APR-2001 2002BPOIF Nouse 10kb plasmid UUGCZM library Mus musculus genomic clone UUGCZN0268F01 F, DNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Nus musculus
Eukaryota, Metazoa: Chordata; Craniata; Vertebrata; Euteleostomi;
Eukaryota, Metazoa: Chordata; Sciurognathi; Muridae; Murinae; Mus.

1 (bases 1 to 45)
Euro, Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Dunn, B., Hamil, C., Punn, D., Aoyagi, A., Barber, M., Menen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Walss, R.

House whole genome scaffolding with paired end reads from 10kb plasmid inserts
                                                                       Gaps
Query Match 1.2%; Score 20.4; DB 17; Length 47; Best Local Similarity 71.1%; Pred. No. 8.66+05; Matches 27; Conservative 0; Mismatches 11; Indels (
                                                                                                                            Email: ddunn@genetlcs.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0268 row: P column: 01
Seg primer: CGTYCTARAACGACGGCCAGT
Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              High quality sequence stop: 45.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AZ985975.1 GI:13857202
```

```
AI475974

LISGADG XI NCI_CGAP_COl4 Homo sapiens CDNA clone IMAGE:2154899 3'
similar to TR:Q17352 Q17352 RBM-TYPE RNA BINDING PROTEIN. ; contains
element MSRI repetitive element ;, mRNA sequence.
AI475974

AI475974.1 GI:4329019
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Tumor Gene Index
Unpublished (1997)
Unpublished (1997)
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs rémail.inh.gov
Tissue Procurement: Christopher Moskaluk, N.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arayaed by: Grag Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.N.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
Eukaryota; Netazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mamalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 40)
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         O; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         'Match 1.2%; Score 20.2; DB 9; Length 49; Local Similarity 75.8%; Pred. No. 9.9e+05; Local 25; Conservative 0; Mismatches 8; Indels
                                                                                                       /organism-"Mus musculus"
/strain-"c57DL/60;
/db_xref="taxon:10090"
/clone="INAGE:640434"
/clone="INAGE:640434"
/clone="Ine"Soares_thymus_2NbMT"
/sex="male"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Trace considered overall poor quality Insert Length: 416 Std Error: 0.00 Seq primer: -40UP from Glbco High quality sequence stop: 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1156 ATGTGGGGTGTGGGCTGCATCTTCTATGAGATG 1188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /organism="Romo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:2154899"
/clone_lib="NCI_CGAP_CO14"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            33 ATGGGGTGTGTGAGCTGCATGTGCTCTGTGCTG 1
                                                                                                                                                                                                                                                                                           /tissue_type="Thymus"
/dev_stage="4 weeks"
/lab_host="DH10B"
             High quality sequence stop: 1. Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 15
A1475974/c
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Best Loca
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       JOURNAL
COMMENT
                                      FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURES
                                                                        /db_kref="texon1000"
//db.kref="texon1000"
//dlone="tucc2v0026801"
//dlone="tucc2v0026801"
//dlone="tucc2v0026801"
//dlone="tucc2v0026801"
//dlone="tucc2v0026801"
//dlone="tucc2v0026801"
//dlone="tucc2v0026801"
//dlone="tucc2v0026801"
//dlone="tucc2v0026901"
//dlone="tucc2v01"
/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AA204601 49-FEB-1997 mu25c05.rl Scares_thymus_2NbWT Wus musculus cDNA clone IMAGE:6404245' similar to SW:143G_BOVIN P29359 14-3-3 PROTEIN GAMMA ;, mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Bucheria; Rodentia; Sclurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 49)
Marra, M. Hiller, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T., Geisel, S., Rucaba, T., Laey, W., Lew, Martin, J., Morris, M., Schallenberg, K., Stepfoce, M., Tan, F., Underwood, K., Noore, B., Theising, B., Wylle, T., Lennon, G., Soares, B., Wilson, R. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 This clone is available royalty-free through LLNL; contact the MAGE Consortium (info@image.llnl.gov) for further information.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The Nash-HMI Mouse EST Project Unpublished (1996)
Contact: Marra W/Mouse EST Project
Wash-HMI Mouse EST Project
Washlo-HMI Mouse EST Project
Washington University School of Medicinep
444 Forest Park Parkway, Box 8501, St. Louis, NO 63108
Fax: 314 286 1800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 1.24; Score 20.2; DB 17; Length 45; Best Local Similarity 68.34; Pred. No. 9.5e+05; Matches 28; Conservative 0; Mismatches 13; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Trace considered overall poor quality
Possible reversed clone: similarity on wrong strand
Seg primer: -28M13 rgv2 from Amersham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4 AAGCAGCGTAAAGGATGGACAGGAATGCAGAGGTAGGCAGG 44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            organism-"Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  mouseest@watson.wustl.edu
                                                              /strain-"C57BL/6J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AA204601
AA204601.1 GI:1800608
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               house mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Waterston, R
source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 14
AA204601/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE
JOURNAL
COMMENT
```

ò

```
/Lissue_type="moderately-differentiated adenocarcinoma"
/lab.host="DilOB"
/note="Organ: colon; Vector: pCMV-SPORT6; Site_1; Sali;
Site_2: NOII: Cloned unidirectionally. Frimer: Oligo dT.
Average insert size 1.7 kb. Life Technologies catalog #:
11531-019"
```

BASE COUNT ORIGIN

ö Ouery Match
1.1%, Score 20; DB 9; Length 40;
Best Local Similarity 72.2%; Pred. No. 1e+06;
Matches 26; Conservative 0; Mismatches 10; Indels

ö

Gapa

õ g

Search completed: March 4, 2003, 00:50:32 Job time : 2635 secs